



**RAKIRO**

*Create...Innovate...Deliver!*

**Rakiro Biotech Systems Private Limited**  
**[www.rakiro.net](http://www.rakiro.net)**

# About Us

Rakiro provides solutions for testing, measurement and water treatment for the process Industry. In past few years we have made a mark in the field of testing and have a strong presence in India as well as other parts of the world with a wide network of dealers & distributors. Also with a vast experience in the field of water treatment our chemical division specializes in chemical formulations required in the smooth running of various processes and helps improve the efficiency of production. We are truly invested in understanding our clients' needs and working with them to deliver high quality solutions, with continuously reviewing and improving our way of working. All our products are evaluated and approved by major institutes and authorities in India.

## Our Infrastructure

Our pragmatic workforce & state of the art manufacturing facility produces a wide range of Instruments & Field Test Kits for both microbiological & chemical analytical parameters. Our ERP system based operations help us to make majority of the product range available of the shelf. This helps all our clients in enhancing the pace of onsite Testing or Treatment & thus efficiently monitor a running process. We understand the importance of systems and processes for smooth functioning and thus we follow system driven operations. We have acquired ISO 9001:2015 certification for our Quality Management System (QMS).



Automized Production

Instrument Assembly



Quality Control

R&D Laboratory



## Our Team

For us leadership is not about glorious crowning acts. It's about keeping your team focused on a goal and motivated to do their best to achieve it.



# Our Product



## Water Test Kits

|                                   |   |
|-----------------------------------|---|
| ◆ Individual Water Test Kit       | 4 |
| ◆ Individual Combination Test Kit | 7 |
| ◆ Soil Test Kit                   | 8 |
| ◆ Indicator Test Paper            | 9 |



## Microbiological Test Kits

|                                |    |
|--------------------------------|----|
| ◆ Dipslide Test Kit            | 10 |
| ◆ Pouch Pack Test Kit          | 10 |
| ◆ SRB Test Kit                 | 11 |
| ◆ Algae Test Kit               | 11 |
| ◆ Nitrifying Bacteria Test Kit | 11 |



## Drinking Water Test Kit

|                              |    |
|------------------------------|----|
| ◆ Coliform Bacteria Test Kit | 12 |
|------------------------------|----|



## Digital Instruments

|                         |    |
|-------------------------|----|
| ◆ Handheld Meters       | 13 |
| ◆ Pentype Meters        | 14 |
| ◆ Multiparameter Meters | 14 |
| ◆ Portable Meters       | 16 |
| ◆ Table Top Meters      | 19 |
| ◆ Bench Top Meters      | 20 |
| ◆ Onilne Meters         | 21 |
| ◆ Electrodes            | 23 |
| ◆ Calibration Solution  | 18 |



## Chemical Formulation

|                             |    |
|-----------------------------|----|
| ◆ Reverse Osmosis Chemicals | 25 |
| ◆ Cooling Water Chemicals   | 27 |
| ◆ Boiler Water Chemicals    | 26 |
| ◆ Sugar Process Chemicals   | 28 |
| ◆ Specialty Chemicals       | 29 |



## Fireside Additives

|                              |    |
|------------------------------|----|
| ◆ Solid Fuel Additive        | 30 |
| ◆ Furnace Treatment Compound | 30 |

# AQUASOL

## Analyzing Waters Anytime... Anywhere...



AQUASOL test kits are extremely simple and easy to use making monitoring convenient and quick, thus preventive action can be taken immediately. You neither have to be a trained chemist nor require any experience to get reliable results from these test kits.

AQUASOL test kits are based on standard and established analytical methods, backed by chemical research. These are simple adaptations of classic chemical analytical methods. The analytical methods are based on Standard Methods for Examination of Water and Waste Water prepared by American Public Health Association (APHA), American Water Works Association (AWWA), different pharmacopoeias and other standard methods.

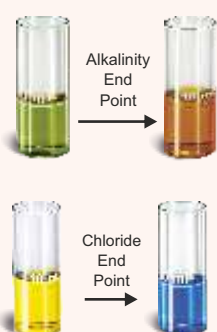
You can have complete confidence in the results you obtain from AQUASOL, as they are extremely reliable. AQUASOL® systems replace conventional analytical methods such as Titrimetric, Colorimetric and Spectrophotometric by simple drop tests and standard colour comparison methods.



AQUASOL reagents are completely ready to use, conveniently packed, and therefore user friendly. Our drop count procedures and colour comparisons tests are economical.

AQUASOL test kits are extremely convenient, and free you from the tedium of the laboratory, while saving precious time. Now you do not have to bother about reagent preparations and standardization. Therefore AQUASOL test kits have been designed especially for you, who require accuracy of the highest standards.

AQUASOL test kits are available for almost all water parameters.



## Combination Kits



# AQUASOL Range

| Sr | Parameter                     | Code    | Product Range                                   | No. of Tests |
|----|-------------------------------|---------|-------------------------------------------------|--------------|
| 1  | Total Hardness Test Kit       | AE201   | 2 - 40 & 5 - 100 PPM (Mg/L)                     | 250          |
| 2  | Total Hardness Test Kit       | AE211   | 2 - 40 & 25 - 500 PPM (Mg/L)                    | 250          |
| 3  | Total Hardness Test Kit       | AE221   | 5 - 100 & 25 - 500 PPM (Mg/L)                   | 250          |
| 4  | Total Hardness Test Kit       | AE231   | 1 - 20 & 5 - 100 PPM (Mg/L)                     | 250          |
| 5  | Total Hardness Test Kit       | AE241   | 50 - 1000 PPM (Mg/L)                            | 250          |
| 6  | Total Hardness Test Kit       | AE501   | 2 - 40 & 5 - 100 PPM (Mg/L)                     | 500          |
| 7  | Total Hardness Test Kit       | AE511   | 2 - 40 & 25 - 500 PPM (Mg/L)                    | 500          |
| 8  | Total Hardness Test Kit       | AE521   | 5 - 100 & 25 - 500 PPM (Mg/L)                   | 500          |
| 9  | Total Hardness Test Kit       | AE531   | 1 - 20 & 5 - 100 PPM (Mg/L)                     | 500          |
| 10 | Total Hardness Test Kit       | AE541   | 50 - 1000 PPM (Mg/L)                            | 500          |
| 11 | Acidity Test Kit              | AE264   | 10 - 200 & 100 - 2000 PPM (Mg/L)                | 300          |
| 12 | Alkalinity Test Kit           | AE204   | 10 - 200 & 100 - 2000 PPM (Mg/L)                | 300          |
| 13 | Alkalinity Test Kit           | AE214   | 5 - 100 & 25 - 500 PPM (Mg/L)                   | 300          |
| 14 | Aluminium Test Kit            | AE451*  | 0.0 - 1.5 PPM (Mg/L)                            | 100          |
| 15 | Amine Test Kit                | AE402   | 5 - 100 & 50 - 1000 PPM (Mg/L)                  | 300          |
| 16 | Amine Test Kit                | AE412   | 1 - 20 PPM (Mg/L)                               | 300          |
| 17 | Ammonia Test Kit              | AE307*  | 0.5 - 8.0 PPM (Mg/L)                            | 250          |
| 18 | Ammonia Test Kit              | AE317*  | 0.05 - 1.0 PPM (Mg/L)                           | 100          |
| 19 | Ammonia Test Kit (Salt Water) | AE337*  | 0.25 - 8.0 PPM (Mg/L)                           | 250          |
| 20 | Ammonia Test Kit              | AE357*  | 0.05 - 8.0 PPM (Mg/L)                           | 250          |
| 21 | Arsenic Test Kit              | AE408*  | 0 - 100 PPB (50 Tests) & 0 - 3.0 PPM (50 Tests) | 100          |
| 22 | Arsenic Test Kit              | AE418*  | 0 - 500 PPB (Mg/L)                              | 60           |
| 23 | Bromine Test Kit              | AE404   | 0.1 - 2.0 PPM (Mg/L)                            | 100          |
| 24 | Calcium Hardness Test Kit     | AE202   | 5 - 100 PPM (Mg/L)                              | 300          |
| 25 | Calcium Hardness Test Kit     | AE212   | 25 - 500 PPM (Mg/L)                             | 300          |
| 26 | Carbon Dioxide Test Kit       | AE403   | 2 - 40 & 10 - 200 PPM (Mg/L)                    | 300          |
| 27 | Chloride Test Kit             | AE203   | 10 - 200 & 50 - 1000 PPM (Mg/L)                 | 300          |
| 28 | Chloride Test Kit             | AE213   | 2 - 40 & 5 - 100 PPM (Mg/L)                     | 300          |
| 29 | Chloride Test Kit             | AE213L  | 1 - 20 PPM (Mg/L)                               | 300          |
| 30 | Chlorine Dioxide Test Kit     | AE405   | 0.2 - 4.0 PPM (Mg/L)                            | 300          |
| 31 | Chlorine Dioxide Test Kit     | AE415*  | 0.1 - 5.0 PPM (Mg/L)                            | 500          |
| 32 | Chlorine Test Kit             | AE246   | 10 - 200 PPM (Mg/L)                             | 300          |
| 33 | Chlorine Test Kit             | AE246L  | 1 - 20 PPM (Mg/L)                               | 300          |
| 34 | Chloroscope Test Kit          | AE409*  | 0.05 - 5.0 PPM (Mg/L)                           | 1000         |
| 35 | Chloroscope Test Kit          | AE419*  | 0.05 - 5.0 PPM (Mg/L)                           | 500          |
| 36 | Chromate Test Kit             | AE208   | 5 - 100 & 25 - 500 PPM (Mg/L)                   | 200          |
| 37 | COD Test Kit                  | AE407   | 40 - 400 PPM (Mg/L)                             | 100          |
| 38 | COD Test Kit                  | AE407HM | 0 - 100 Deg                                     | NA           |
| 39 | COD Test Kit                  | AE407R  | 40 - 400 PPM (Mg/L)                             | 100          |
| 40 | Copper Test Kit               | AE310*  | 0.25 - 5.0 PPM (Mg/L)                           | 250          |
| 41 | Dissolved Oxygen Test Kit     | AEDO8   | 0.5 - 8.0 PPM (Mg/L)                            | 250          |
| 42 | Fluoride Test Kit             | AE210   | 0.1 - 2.0 & 1 - 20 PPM (Mg/L)                   | 500          |
| 43 | Fluoride Test Kit             | AE220*  | 0 - 3 PPM (Mg/L)                                | 200          |
| 44 | Free Chlorine Test Kit        | AE205   | 0.1 - 2.0 PPM (Mg/L)                            | 200          |
| 45 | Free Chlorine Test Kit        | AE215   | 0.2 - 4.0 PPM (Mg/L)                            | 200          |
| 46 | Free Chlorine Test Kit        | AE225*  | 0 - 5.0 PPM (Mg/L)                              | 200          |

Note: Product marked (\*) are based on Colour Comparison Method & all others products are Drop Titration Method based.

# AQUASOL Range

| Sr | Parameter                     | Code   | Product Range                     | No. of Tests |
|----|-------------------------------|--------|-----------------------------------|--------------|
| 47 | Hydrazine Test Kit            | AE304* | 0.1 - 1.25 PPM (Mg/L)             | 200          |
| 48 | Hydrogen Peroxide Test Kit    | AEHP   | 5 - 100 & 25 - 500 PPM (Mg/L)     | 300          |
| 49 | Hydrogen Sulphide Test Kit    | AE452* | 0 - 1.0 PPM (Mg/L)                | 200          |
| 50 | Hydrogen Sulphide Test Kit    | AE462* | 0 - 25 PPM (Mg/L)                 | 200          |
| 51 | Iodine Test Kit               | AE406  | 0.1 - 2.0 PPM (Mg/L)              | 100          |
| 52 | Iron Test Kit                 | AE303* | 0 - 2.0 PPM (Mg/L)                | 175          |
| 53 | Iron Test Kit                 | AE313* | 0 - 10 PPM (Mg/L)                 | 175          |
| 54 | Manganese Test Kit            | AE410* | 0.025 - 0.4 PPM (Mg/L)            | 200          |
| 55 | Molybdate Test Kit            | AE309* | 5 - 50 PPM (Mg/L)                 | 325          |
| 56 | Nitrate Test Kit              | AE308* | 0.5 - 50 PPM (Mg/L)               | 400          |
| 57 | Nitrate Test Kit              | AE318* | 5 - 160 PPM (Mg/L)                | 400          |
| 58 | Nitrate Test Kit (Salt Water) | AE328* | 5 - 160 PPM (Mg/L)                | 400          |
| 59 | Nitrite Test Kit              | AE207  | 50 - 1000 PPM (Mg/L)              | 300          |
| 60 | Nitrite Test Kit              | AE217* | 0.025 - 0.8 PPM (Mg/L)            | 400          |
| 61 | Nitrite Test Kit              | AE227* | 0.25 - 5.0 PPM (Mg/L)             | 400          |
| 62 | Nitrite Test Kit (Salt Water) | AE247* | 0.25 - 5.0 PPM (Mg/L)             | 400          |
| 63 | Nitrite Test Kit              | AE257* | 0.04 - 0.8 PPM (Mg/L)             | 400          |
| 64 | Ozone Test Kit                | AE0Z3  | 0.05 – 1.00 PPM (Mg/L)            | 100          |
| 65 | Ozone Test Kit                | AE0Z3H | 0.25 – 5.00 PPM (Mg/L)            | 100          |
| 66 | PH Test Kit                   | AE306* | PH 4 - 10                         | 250          |
| 67 | PH Test Kit                   | AE316* | PH 6.0 - 9.0                      | 500          |
| 68 | PH Test Kit                   | AE326* | PH 7.4 - 9.0                      | 500          |
| 69 | Phosphate Test Kit            | AE301* | 0 - 50 PPM (Mg/L)                 | 500          |
| 70 | Phosphate Test Kit            | AE311* | 0.1 - 10 PPM (Mg/L)               | 500          |
| 71 | Phosphonate Test Kit          | AE401  | 5 - 100 & 50 - 1000 PPM (Mg/L)    | 300          |
| 72 | Phosphonate Test Kit          | AE411  | 5 - 100 & 50 - 1000 PPM (Mg/L)    | 300          |
| 73 | Silica Test Kit               | AE302* | 5 - 80 PPM (Mg/L)                 | 400          |
| 74 | Silica Test Kit               | AE312* | 0.01 - 0.1 PPM (Mg/L)             | 75           |
| 75 | Silica Test Kit               | AE322* | 0.05 - 5.0 PPM (Mg/L)             | 100          |
| 76 | Silica Test Kit               | AE332* | 75 - 200 PPM (Mg/L)               | 100          |
| 77 | Sulphate Test Kit             | AE209  | 10 - 100 & 5 - 1000 PPM (Mg/L)    | 350          |
| 78 | Sulphate Test Kit             | AE219  | 5 - 100 & 25 - 500 PPM (Mg/L)     | 350          |
| 79 | Sulphite Test Kit             | AE206  | 5 - 100 PPM (Mg/L)                | 300          |
| 80 | Sulphite Test Kit             | AE216* | 5 - 100 PPM (Mg/L)                | 300          |
| 81 | Tannin Test Kit               | AE2TN  | 5 - 100 & 25 - 500 PPM (Mg/L)     | 300          |
| 82 | Total Chlorine Test Kit       | AE235* | 0.1 - 2.0 PPM (Mg/L)              | 200          |
| 83 | Total Chlorine Test Kit       | AE245* | 0.2 - 4.0 PPM (Mg/L)              | 200          |
| 84 | Turbidity Test Kit            | AE300* | 1 - 25 NTU                        | NA           |
| 85 | Zinc Test Kit                 | AE305* | 0 - 7.5 PPM (Mg/L)                | 450          |
| 86 | Swimming Pool Test Kit        | AE105* | Chlorine 0.5 - 5 PPM / PH 6.5 - 9 | 1000         |

**Note: Product marked (\*) are based on Colour Comparison Method & all others products are Drop Titration Method based.**

AQUASOL Test Kits are available for almost all water parameters in individual packs, as well as combination packs, depending on the specific requirements of different industries. Also for any specific requirements, Custom Made AQUASOL Systems can be devised both as Individual or Combination Kits.

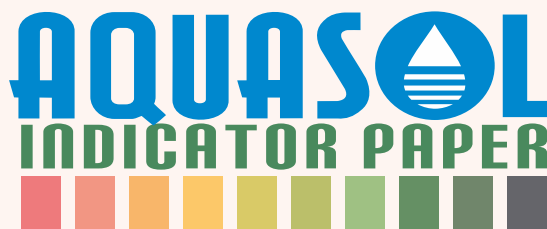
# AQUASOL Range

| Sr | Product Code                                 | Parameters           | Product Range                    | No. of Tests |
|----|----------------------------------------------|----------------------|----------------------------------|--------------|
| 1  | <b>AE101</b><br>COOLING WATER TEST KIT       | Total Hardness       | 2-40, 5-100, 25-500 PPM (MG/L)   | 200 Each     |
|    |                                              | Calcium Hardness     | 5-100 PPM (MG/L)                 |              |
|    |                                              | Alkalinity           | 10- 200 & 100-2000 PPM (MG/L)    |              |
|    |                                              | Chloride             | 10-200 & 50-1000 PPM (MG/L)      |              |
|    |                                              | pH                   | 4 to 10                          |              |
|    |                                              | Iron (Dissolved)     | 0 - 2.0 PPM (MG/L)               |              |
|    |                                              | Silica               | 5 - 80 PPM (MG/L)                |              |
|    |                                              | Phosphate            | 0 - 40 PPM (MG/L)                |              |
|    |                                              | Free Chlorine        | 0.1-2.0 PPM (MG/L)               |              |
| 2  | <b>AE102</b><br>BOILER WATER TEST KIT        | Total Hardness       | 2-40, 5-100, 25-500 PPM (MG/L)   | 200 Each     |
|    |                                              | Calcium Hardness     | 5-100 PPM (MG/L)                 |              |
|    |                                              | Alkalinity           | 10- 200 & 100-2000 PPM (MG/L)    |              |
|    |                                              | Chloride             | 10-200 & 50-1000 PPM (MG/L)      |              |
|    |                                              | pH                   | 4 to 10                          |              |
|    |                                              | Iron (Dissolved)     | 0 - 2.0 PPM (MG/L)               |              |
|    |                                              | Silica               | 5 - 80 PPM (MG/L)                |              |
|    |                                              | Phosphate            | 0 - 40 PPM (MG/L)                |              |
|    |                                              | Sulphite             | 5-100 PPM (MG/L)                 |              |
| 3  | <b>AE103</b><br>DRINKING WATER TEST KIT      | pH                   | 4 to 10                          | 200 Each     |
|    |                                              | Turbidity            | 1 to 25 as NTU                   |              |
|    |                                              | Total Hardness       | 10 - 200 & 50-1000 PPM (MG/L)    |              |
|    |                                              | Chloride             | 10-200 & 50-1000 PPM (MG/L)      |              |
|    |                                              | Free Chlorine (DPD)  | 0.1-2.0 PPM (MG/L)               |              |
|    |                                              | Iron (Dissolved)     | 0 - 2.0 PPM (MG/L)               |              |
|    |                                              | Fluoride             | 0.1 - 2.0 PPM (MG/L)             |              |
|    |                                              | Nitrate              | 0.5 - 50 PPM (MG/L)              |              |
|    |                                              | Alkalinity           | 10-200 & 100-2000 PPM (MG/L)     |              |
| 4  | <b>AE104</b><br>RO WATER TEST KIT            | pH                   | 4 to 10                          | 200 Each     |
|    |                                              | Total Hardness       | 2-40, 25-500 PPM (MG/L)          |              |
|    |                                              | Calcium Hardness     | 5-100 PPM (MG/L)                 |              |
|    |                                              | Silica               | 5, 10, 20, 40, 60, 80 PPM (MG/L) |              |
|    |                                              | Sulphate             | 10-200, 50-1000 PPM (MG/L)       |              |
|    |                                              | Iron (Dissolved)     | 0 - 2.0 PPM (MG/L)               |              |
|    |                                              | Nitrate              | 0.5-50 PPM (MG/L)                |              |
|    |                                              | Nitrite              | 0.025-0.8 PPM (MG/L)             |              |
| 5  | <b>AE106</b><br>PURIFIED WATER (IP) TEST KIT | Acidity & Alkalinity | All are Limit Tests              | 100 Each     |
|    |                                              | Magnesium & Calcium  |                                  |              |
|    |                                              | Ammonium             |                                  |              |
|    |                                              | Sulphate             |                                  |              |
|    |                                              | Chloride             |                                  |              |
|    |                                              | Heavy Metal as Pb    |                                  |              |

# AQUASOL Range

| Sr | Product Code                                      | Parameters           | Product Range                                                    | No. of Tests |
|----|---------------------------------------------------|----------------------|------------------------------------------------------------------|--------------|
| 6  | <b>AE107</b><br>METAL WORKING FLUID TEST KIT      | Total Hardness       | 2-40, 5-100,25-500 PPM (MG/L)                                    | 100 Each     |
|    |                                                   | Chloride             | 10-200 & 50-1000 PPM (MG/L)                                      |              |
|    |                                                   | pH                   | 4—10                                                             |              |
| 7  | <b>AE108F</b><br>AQUACULTURE FRESH WATER TEST KIT | pH                   | 6.0 - 7.6 & 7.4 - 9.0                                            | 100 Each     |
|    |                                                   | Ammonia              | 0.25 - 8.0 PPM (MG/L)                                            |              |
|    |                                                   | Nitrate              | 5 - 160 PPM (MG/L)                                               |              |
|    |                                                   | Nitrite              | 0.25 - 5.0 PPM (MG/L)                                            |              |
| 8  | <b>AE108S</b><br>AQUACULTURE SALT WATER TEST KIT  | pH                   | 7.4 - 9.0                                                        | 100 Each     |
|    |                                                   | Ammonia              | 0.25 - 8.0 PPM (MG/L)                                            |              |
|    |                                                   | Nitrate              | 5 - 160 PPM (MG/L)                                               |              |
|    |                                                   | Nitrite              | 0.25 - 5.0 PPM (MG/L)                                            |              |
| 9  | <b>AE118F</b><br>AQUACULTURE FRESH WATER TEST KIT | pH                   | 6.0 - 7.6 & 7.4 - 9.0                                            | 200 Each     |
|    |                                                   | Ammonia              | 0.25 - 8.0 PPM (MG/L)                                            |              |
|    |                                                   | Nitrate              | 5 - 160 PPM (MG/L)                                               |              |
|    |                                                   | Nitrite              | 0.25 - 5.0 PPM (MG/L)                                            |              |
|    |                                                   | DO                   | 0.5 - 8.0 PPM (Mg/L)                                             |              |
| 10 | <b>AE118S</b><br>AQUACULTURE SALT WATER TEST KIT  | pH                   | 6.0 - 7.6 & 7.4 - 9.0                                            | 200 Each     |
|    |                                                   | Ammonia              | 0.25 - 8.0 PPM (MG/L)                                            |              |
|    |                                                   | Nitrate              | 5 - 160 PPM (MG/L)                                               |              |
|    |                                                   | Nitrite              | 0.25 - 5.0 PPM (MG/L)                                            |              |
|    |                                                   | DO                   | 0.5 - 8.0 PPM (Mg/L)                                             |              |
| 11 | <b>AE109</b><br>CONSTRUCTION WATER TEST KIT       | Calcium Hardness     | 25 – 500 PPM (MG/L)                                              | 200 Each     |
|    |                                                   | Chloride             | 10 – 200, 50 – 2000 PPM (MG/L)                                   |              |
|    |                                                   | Acidity              | 10 – 200, 50 – 1000 PPM (MG/L)                                   |              |
|    |                                                   | Alkalinity           | 10 – 200, 50 – 1000 PPM (MG/L)                                   |              |
|    |                                                   | Sulphate             | 10 – 200 PPM (MG/L)                                              |              |
|    |                                                   | pH                   | 0 - 14                                                           |              |
|    |                                                   | TDS                  | 0 – 9990 PPM (MG/L)                                              |              |
| 12 | <b>AE110</b><br>SOIL TEST KIT<br>(10 Test each)   | pH                   | 4—10                                                             | 10 Each      |
|    |                                                   | Nitrogen             | <4, 4-10, 10 -20, 20-40, >50 Kg/ha as N                          |              |
|    |                                                   | Phosphorous          | <25, 25-60, 60 - 80, > 80 Kg/ha as P <sub>2</sub> O <sub>5</sub> |              |
|    |                                                   | Potassium            | 0, <125, 125-250, 250-400, >400 Kg/ha as K                       |              |
|    |                                                   | Organic Carbon       | < 0.4 % / 0.4 -0.8 % / > 0.8 % w/v                               |              |
| 13 | <b>AESTK</b><br>SOIL TEST KIT<br>(25 Test each)   | pH                   | 4—10                                                             | 25 Each      |
|    |                                                   | Nitrogen             | <4, 4-10, 10 -20, 20-40, >50 Kg/ha as N                          |              |
|    |                                                   | Phosphorous          | <25, 25-60, 60 - 80, > 80 Kg/ha as P <sub>2</sub> O <sub>5</sub> |              |
|    |                                                   | Potassium            | 0, <125, 125-250, 250-400, >400 Kg/ha as K                       |              |
|    |                                                   | Organic Carbon       | < 0.4 % / 0.4 -0.8 % / > 0.8 % w/v                               |              |
| 14 | <b>AESPK</b><br>SWIMMING POOL TEST KIT            | Free Chlorine (DPD)  | 0.1—2.0 PPM (MG/L)                                               | 200 Each     |
|    |                                                   | pH                   | 4 to 10                                                          |              |
|    |                                                   | Microbiological Test | Coliform Bacteria Presence / Absence Test                        | 6 Test       |





Indicator Paper Testing have been developed with a mixture of several indicators, which on contact with the sample solution assume a particular color. A check against the color comparison table supplied allows the parameter to be determined. AQUASOL range offers a range of pH indicator and other test papers to meet your specific testing needs. Our AQUASOL Indicator Paper combine ease-of-use with accuracy, consistency and unmatched quality. The convenience of using AQUASOL Indicator Paper for the rapid determination of pH and other parameters has many applications in laboratories and industry.

## Features :

- Instant Readings
- Economical Pack Size
- In Kangaroo Pack
- Accurate for a Wide Range
- Convenient and Portable
- Advance Paper with Long Life



| Sr | Product Code | Product Description                           | Each Pack Contains      |
|----|--------------|-----------------------------------------------|-------------------------|
| 1  | AIPPH01      | INDICATOR PAPER UNIVERSAL -pH 1.0-14.0        | 10 Booklet of 20 Strips |
| 2  | AIPPH02      | INDICATOR PAPER WIDE RANGE - pH 2.0-10.5      | 10 Booklet of 20 Strips |
| 3  | AIPPH03      | INDICATOR PAPER NARROW RANGE- pH 2.0-4.5      | 10 Booklet of 20 Strips |
| 4  | AIPPH04      | INDICATOR PAPER NARROW RANGE-pH 3.5-6.0       | 10 Booklet of 20 Strips |
| 5  | AIPPH06      | INDICATOR PAPER NARROW RANGE-pH 5.0-7.5       | 10 Booklet of 20 Strips |
| 6  | AIPPH07      | INDICATOR PAPER NARROW RANGE-pH 6.5-9.0       | 10 Booklet of 20 Strips |
| 7  | AIPPH08      | INDICATOR PAPER NARROW RANGE- pH 8.0-10.5     | 10 Booklet of 20 Strips |
| 8  | AIPBTB       | INDICATOR PAPER BTB (BROMO THYMOL BLUE)       | 10 Booklet of 20 Strips |
| 9  | AIPCL        | INDICATOR PAPER CHLORINE TEST ( 5 - 100 PPM ) | 10 Booklet of 20 Strips |
| 10 | AIPCR        | INDICATOR PAPER CONGO RED                     | 10 Booklet of 20 Strips |
| 11 | AIPBY        | INDICATOR PAPER BRILLIANT YELLOW              | 10 Booklet of 20 Strips |
| 12 | AIPLB        | INDICATOR PAPER LITMUS BLUE                   | 10 Booklet of 20 Strips |
| 13 | AIPLR        | INDICATOR PAPER LITMUS RED                    | 10 Booklet of 20 Strips |
| 14 | AIPPE        | INDICATOR PAPER PHENOLPHTHALEIN               | 10 Booklet of 20 Strips |
| 15 | AIPSI        | INDICATOR PAPER STARCH IODIDE                 | 10 Booklet of 20 Strips |
| 16 | AIPTH        | INDICATOR PAPER THYMOLPHTHALEIN               | 10 Booklet of 20 Strips |

**NOTE: Product Supplied in Multiples of 5 Packs only.**

# BACTASLYDE®

*Detect Bacteria Easily  
Anytime... Anywhere...*



BACTASLYDE is a quick, easy & economical technique of monitoring bacteria in liquids, solids and also on surfaces. It is used virtually in any industry by engineers, water treatment professionals and facilities management specialists to make bacteria testing quick and easy. BACTASLYDE is regularly used worldwide for monitoring microbiological contamination and has been found to be reliable as it compares well with conventional microbiological techniques. BACTASLYDE is extremely easy and can be used even by a non technical person at site very effectively as it does not require any laboratory or additional equipment. It is an economical & no capital investment is required. BACTASLYDE helps to improve efficiency, prolong equipment life and reduce breakdowns.

- **Extremely Easy and Quick**
- **No Need of Incubator**
- **Microbiology Laboratory Not Required**
- **No Capital Investments**
- **Can Be used by Non Technical Person**
- **DIY On Site Test**
- **Quick and Accurate Results**
- **Tested by National Laboratories**

## BACTASLYDE® DIP SLIDE TEST KIT

BACTASLYDE is a presterilized plastic paddle coated with specially developed proprietary media on each side for the growth of a variety of bacteria, yeasts & fungi. Its dual media enables you perform the Total Bacterial Count on one side and the specific bacteria species count on the other side at the same time in just 24 hours. BACTASLYDE has been found to be reliable and compares well with conventional microbiological techniques. Such slides are in regular usage, worldwide, for monitoring microbiological contamination. BACTASLYDE is supplied in a pack of 5 along with the complete instructions & a density chart for quantitative analysis of bacteria.



How to use  
BACTASLYDE®  
Dip Slide?

**Step 1**  
Dip for 20-25 seconds.  
Use a clean container to  
hold the test material



**Step 2**  
At room temperature  
(18-32°C) No need of  
an incubator



**Step 3**  
Match with  
Density Chart



## BACTASLYDE® POUCH PACK TEST KIT

BACTASLYDE POUCH PACK is an easy to use test kit with specially developed media for various bacteria that will enable you perform a presence or absence test. Even one organism if not desired in the sample material can be tested and analyzed. Its enables you to perform onsite bacteria tests & can be used virtually in any industry. BACTASLYDE has been found to be reliable and compares well with conventional microbiological techniques. Such Pouch Tests are in regular used, worldwide, for monitoring microbiological contamination. Our ready to use Bacteria Test kit has media pouch with sterile container and supplied in a pack of 5 along with the complete instructions set.



How to use  
BACTASLYDE®  
Pouch Packs?

**Step 1**  
Pour Test Sample up to  
100ml mark in the  
sterile bottle.



**Step 2**  
Cut open the & Pour  
the contents of  
into bottle.



**Step 3**  
Keep in a warm place  
for 18 to 24 hours &  
Observe the colour



# BACTASLYDE Range

| Sr | Product Code | Product Description                                | Application in Various Industries                                                                                         |
|----|--------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 1  | BS101        | (Yeast & Fungi + Total Bacteria Count) Test Kit    | Food, Soft Drink & Ice-cream, Dairy, Breweries, Pharma, Hospitals, Paper & Pulp, Paint & Pigment, Metal Working Fluids.   |
| 2  | BS102        | (E.coli + Total Bacteria Count) Test Kit           | Food, Soft Drink and Ice-cream, Pharma, Dairy, Water & Waste Water Treatment                                              |
| 3  | BS103        | (Pseudomonas + Total Bacteria Count) Test Kit      | Food, Soft Drink and Ice-cream, Pharma, Dairy, Paper & Pulp, Paint & Pigment, Cooling Tower Water, Metal Working Fluids.  |
| 4  | BS115        | (Sulphate Reducing Bacteria) Kit                   | Paper & Pulp, Cooling Tower Water, Metal Working Fluids.                                                                  |
| 5  | BS125        | Algae Test Kit (Energy Source + 5 Test Media Pack) | Cooling Waters, Open Ponds, Fire / Guard Pond Water, Lakes.                                                               |
| 6  | BS130        | Nitrifying / De-Nitrifying Bacteria Test Kit       | Fertilizer Cooling Tower, Petrochemical Cooling Tower, any Closed System like Chiller, Refrigerators, Air Conditioner etc |
| 5  | BSPP1        | Iron Oxidizing Bacteria Test Kit                   | Cooling Waters, Open Ponds, Water Outfalls from Pipelines, Metal Working Fluids.                                          |
| 6  | BSPP2        | Salmonella Species Test Kit                        | Food, Eggs, Egg Powder, Spices, Fisheries, Hospitals                                                                      |
| 7  | BSPP3        | Staphylococcus Aureus Species Test Kit             | Food, Milk Products, Fresh Fish, Meat, Sauces, Canned Foods, Hospitals.                                                   |
| 8  | BSPP4        | Vibrio Species Test Kit                            | Food, Fisheries, Processed Fish viz. Cooked deep frozen Prawns & Shrimps.                                                 |

**NOTE: 5 Tests can be performed in each pack**

BACTASLYDE is a quick, easy & economical means of monitoring bacteria and is used virtually in any industry by engineers, water treatment professionals and facilities management specialists to make bacteria testing quick and easy. BACTASLYDE is regularly used worldwide for monitoring microbiological contamination and has been found to be reliable as it compares well with conventional microbiological techniques.

## Dipslide Range

Quick Results

### 3 Easy Steps

► DIP ► INCUBATE ► READ



Total Bacterial Count (TBC)



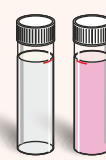
TBC+ Pseudomonas



TBC+ Yeast & Fungi



TBC+ Escherichia Coli



Nitrate Reducing Bacteria (NRB)



Sulphate Reducing Bacteria (SRB)

**BACTASLYDE is used in any liquid, solid, semi solid as well as on surfaces.**

## Pouch Pack Range

ISO 11133 Compliant Media

### 3 Easy Steps

► MIX ► INCUBATE ► READ



Vibrio Species



Iron Bacteria



Nitrifying Bacteria



Algae



Salmonella Species



Staphylococcus Aureus

**BACTASLYDE is being used for more than 30 years in various industries**



# ChekNsee

Check & See  
The Water You  
Drink.

## Power to see the Invisible Danger Drinking Water Test

Water contaminated with bacteria is a major cause of water-borne disease in humans. Enteric diseases like diarrhoea, dysentery, typhoid, paratyphoid, gastroenteritis, cholera, etc. are caused by the tiny menaces viz bacteria.

Detecting these dangerous but unseen predators is quite a tough task. Normally it is the domain of the white coated microbiologist who works amidst sterile conditions and a lot of hush hush secrecy.

No longer! Modern science has now made testing so easy and convenient.

No laboratory! No hassles!! No hush hush secrecy!!! Just ChekNsee!

ChekNsee tests a group of bacteria, which are found in sewage. They are present in the intestine of man and animal and are generally

ChekNsee helps to check water from all kinds of sources viz.

- Taps • Purifiers • Coolers • Storage Tanks
- Rivers • Ponds • Springs

This extremely simple and convenient test can be carried out by anybody, anywhere i.e.

- Homes • Offices • Factories • Shops
- Banks • Hospitals • Hotels • Schools

Check your Water for  
harmful **Bacteria** easily.  
*Anytime... Anywhere...*



### Do it yourself easily to check and see!

#### Instructions for Use



1. Media Pouches & sterile bottle



2. Cut open both the pouches carefully



3. Pour water sample upto 100ml mark



4. Pour pouch contents into bottle

5. Keep in a warm place for 18 to 24 hours  
(No Need for Incubator)

6. Then observe the colour of liquid in bottle

Note: Conclude the result in 24 hours



If colour does not change,  
the Water is  
**Potable**



When colour changes to  
Yellow the  
Water is  
**Not Potable**

| Sr | Product Code | Product Description                    | No. of Tests / Pack |
|----|--------------|----------------------------------------|---------------------|
| 1  | CNC2         | Drinking water Test Kit ( Pack of 2 )  | 2                   |
| 2  | CNC10        | Drinking water Test Kit ( Pack of 10 ) | 10                  |



We bring complete Electrochemistry Solutions for all your applications with a wide range of digital testing instruments. These instruments are designed and developed by professionals using advanced technologies in compliance with international standards. We have an extensive range of instruments for electrochemical measurements for a variety of applications including food, agriculture, wastewater treatment, industrial processes, environmental monitoring and research and development. All our instruments are factory calibrated and are ready to use out of the box. However, after prolonged usage, recalibration is recommended using a commercial standard solution. Get in touch with us for your requirements and let us bring our knowledge & experience in the field of testing, to help you solve your application needs.

## Handheld Meters



Our portable hand held testers are, waterproof and dustproof meters that float if dropped in liquid. These meter's have an IP 57 rating for protection against solid objects or liquids & are encased in a protective carrying pouch for safety and portability. A large, upright, LCD screen affords clear viewing, while a protective cap helps to reduce contamination. A silicone O-ring ensures tight closure and thus ease of electrode module replacement.



### Features :

- ▶ Microprocessor based Fast, Reliable and Accurate measurement.
- ▶ Replaceable Electrode Module.
- ▶ Waterproof Impact resistant ABS case (IP 57).
- ▶ Large LCD display for reading convenience.
- ▶ Easy Calibration.
- ▶ Available in a portable pouch.
- ▶ Manufacturer Warranty for 6 Months.

### Technical Details:

| Parameter  | pH                              | Conductivity          |                      | TDS            |               | ORP           |
|------------|---------------------------------|-----------------------|----------------------|----------------|---------------|---------------|
| Model      | AMPH01                          | AMCOND01              | AMCOND02             | AMTDS01        | AMTDS02       | AMORP01       |
| Range      | 0 to 14                         | 0 to 19990 $\mu$ S/cm | 0 to 1999 $\mu$ S/cm | 0 to 19990 PPM | 0 to 1999 PPM | $\pm$ 1999 mV |
| Accuracy   | $\pm$ 1%                        | $\pm$ 1%              | $\pm$ 1%             | $\pm$ 1%       | $\pm$ 1%      | $\pm$ 2%      |
| Resolution | 0.1 pH                          | 10 $\mu$ S/cm         | 1 $\mu$ S/cm         | 10 PPM         | 1 PPM         | 1 mV          |
| Power      | 3V x 2 Lithium Batteries CR2032 |                       |                      |                |               |               |
| Dimension  | 33.5 mm x 170 mm                |                       |                      |                |               |               |
| Weight     | 85g (Meter Only)                |                       |                      |                |               |               |



# Pen Type Meters

Our range of portable Pen Type meters are an economical range of easy to use and reliable hand held pen type meters. An important feature of the testers is the compact single chamber design. The meter gives accurate readings with its Built-in temperature sensor and can be easily calibrated.

## Features :

- ▶ Fast, Reliable and Accurate measurement
- ▶ Compact Single Chamber Design
- ▶ Built-in Temperature Sensor
- ▶ Auto Shut Off Function to Enhance Battery Life
- ▶ Hold Function for Ease of Read & Record
- ▶ Easy Calibration
- ▶ Available with Calibration Solutions

## Technical Details :

| Parameter   | pH                                        | TDS & Conductivity (EC)                           |
|-------------|-------------------------------------------|---------------------------------------------------|
| Model       | AMPPH                                     | AMPEC                                             |
| Range       | 0 to 14                                   | 0 to 9990 PPM & 0 to 9990 $\mu\text{S}/\text{cm}$ |
| Resolution  | 0.1                                       | 1/10 PPM                                          |
| Power       | 1.5V x 2 Lithium Batteries LR44           | 1.5V x 2 Lithium Batteries LR44                   |
| Accuracy    | $\pm 2\%$ (4 to 10), $\pm 5\%$ (<4 & >10) | $\pm 2\%$ (0 to 2000), $\pm 5\%$ (> 2000)         |
| Temperature | 0 to 80 Deg C                             | 0 to 80 Deg C                                     |
| Dimension   | 35 mm x 155 mm                            | 35 mm x 155 mm                                    |
| Weight      | 55g                                       | 55g                                               |



# ORP / Multi-Parameter - Pen Type Meters



Our Handheld Type economical meters give accurate readings in fluctuating temperatures and can be easily calibrated. An important feature of the testers is a replaceable electrode within a reusable tester body. These meters are cost effective and come with standard solution encased in a protective case for safety and portability.

## Features :

- ▶ Fast, Reliable and Accurate measurement.
- ▶ Replaceable Electrode Module with built-in Temperature Sensor
- ▶ Auto Shut Off Function to Enhance Battery Life
- ▶ Hold Function for Ease of Read & Record
- ▶ Easy Calibration & available with Standard Solutions

## Technical Details :

| Model       | AMPORP                          |
|-------------|---------------------------------|
| Parameter   | ORP                             |
| Range       | -1000 mv to + 1000 mv           |
| Resolution  | 1 MV                            |
| Power       | 1.5V x 3 Lithium Batteries LR44 |
| Accuracy    | $\pm 2\%$                       |
| Temperature | 0 to 80 Deg C                   |
| Dimension   | 183 x 37 x 37 mm                |
| Weight      | 90 g                            |

| Model No   | AMPAL                           |                                    |               |                |
|------------|---------------------------------|------------------------------------|---------------|----------------|
| Parameter  | pH                              | Conductivity                       | TDS           | Temp           |
| Range      | 0.00 to 14.00                   | 0 to 19990 $\mu\text{S}/\text{cm}$ | 0 to 9999 PPM | 0 to 110 Deg C |
| Resolution | 0.01 pH                         | 1 $\mu\text{S}/\text{cm}$          | 1PPM          | 0.1 Deg C      |
| Accuracy   | $\pm 1\%$                       | $\pm 2\%$                          | $\pm 2\%$     | 0.2 Deg C      |
| ATC        | 0 - 80 Deg C                    |                                    |               |                |
| Power      | 1.5V x 3 Lithium Batteries LR44 |                                    |               |                |
| Dimension  | 183 x 37 x 37 mm                |                                    |               |                |
| Weight     | 90 g                            |                                    |               |                |

# DO Hand Held Meters



Our unique designed and engineered DO meters are handheld, waterproof and dustproof that float if dropped in liquid. The compact design and technology helps to measure Dissolved Oxygen / Oxygen Percentage very effectively at the same time. Testing with portable oxygen meters determines whether or not you have optimal dissolved oxygen levels necessary for good water quality. For accurate results this test should be performed on site. Our handheld type advance microprocessor based, fast and accurate DO/O<sub>2</sub> meter is ideal for such applications. These meters are cost effective and come encased in a protective carrying pouch for safety and portability.

## Features:

- ▶ Microprocessor based for fast and accurate measurements.
- ▶ Large LCD display DO and Temperature readings simultaneously.
- ▶ Simple to calibrate by one keyboard and ATC.
- ▶ Memory with Data-hold and Max/Min and shows PTS after calibration.
- ▶ Easy to replace the DO probe module.

## Technical Details :

| Model      | AMDO01                                          |                |               |
|------------|-------------------------------------------------|----------------|---------------|
| Parameter  | DO                                              | O <sub>2</sub> | Temp          |
| Range      | 0 to 20 mg/L                                    | 0 to 200%      | 0 to 90 Deg C |
| Accuracy   | ± 2%                                            | ± 2%           | 0.2 Deg C     |
| Resolution | 0.01                                            | 0.1            | 0.1           |
| ATC        | Yes (0 – 50 Deg C)                              |                |               |
| Power      | AAA DC 1.5V x 4 Batteries                       |                |               |
| Dimensions | Meter: 195 x 40 x 36 mm, Box: 230 x 205 x 50 mm |                |               |
| Weight     | Meter with Battery: 150g , Gross: 800g          |                |               |

# Multi-Parameter Hand Held Meter



Our Multi-Parameter Meter is handheld, waterproof and dustproof. The compact design and technology helps to measure pH, Conductivity, TDS, Salt and Temperature at the same time. An important feature of the testers is a replaceable electrode within a reusable tester body. The microprocessor-based meter gives accurate readings in fluctuating temperatures and can be easily calibrated. These meters are cost effective and come encased in a protective carrying pouch for safety and portability.

## Features :

- ▶ Microprocessor based fast, reliable and accurate measurements.
- ▶ Memory and Storage function.
- ▶ Weatherproof Case and compact Design.
- ▶ Large LCD display for reading convenience.

## Technical Details :

| Model No                                                   | AMAL01                   |                 |                |                |             |                |
|------------------------------------------------------------|--------------------------|-----------------|----------------|----------------|-------------|----------------|
| Parameter                                                  | pH                       | ORP* (Optional) | Conductivity   | TDS            | Salt        | Temp.          |
| Range                                                      | (-)2.00 to 16.00         | ± 1000 mV       | 0 to 100 mS/cm | 0 to 66000 ppm | 0 to 50 PPT | 0 to 110 Deg C |
| Resolution                                                 | 0.01 pH                  | 1 mV            | 1μS/cm         | 1 PPM          | 1 PPM       | 0.1 Deg C      |
| Accuracy                                                   | ±1%                      | ±1%             | ±2%            | ±2%            | ±2%         | 0.2 Deg C      |
| Temp Compensation                                          | Yes                      |                 |                |                |             |                |
| Power                                                      | AAA (1.5V) x 4 Batteries |                 |                |                |             |                |
| Dimension & Weight                                         | 42 x 33 x 183 mm   160 g |                 |                |                |             |                |
| * Please order separate Electrode (AMSALE1) to measure ORP |                          |                 |                |                |             |                |

# Portable Meters

## For Chlorine & Turbidity



To make on site testing easy and simple we have a specially designed portable meter which enables a user to analyse different water parameters on site with higher accuracy. The meter is supplied in a hard plastic case with all the accessories which are required to carry out test on site. These meters have a weatherproof case and are ultra light to carry on site. They are provided with large LCD display and advance memory storage functionalities.

### Features:

- ▶ Microprocessor based fast, reliable and accurate measurements.
- ▶ Spectrophotometric Method for Detailed Analysis.
- ▶ Reagents & Standards Based on International Methods.
- ▶ No Operational Cost for Turbidity Meters.
- ▶ Low Cost Chlorine Reagents.
- ▶ Weatherproof Hard Case and Compact Design.
- ▶ Large LCD display for reading convenience.
- ▶ Memory and Storage function.

### Technical Details:

| Parameter        | Free Chlorine & Total Chlorine                                              |
|------------------|-----------------------------------------------------------------------------|
| Model            | APCL01                                                                      |
| Range            | 0 to 5 ppm                                                                  |
| Resolution       | 0.01 ppm                                                                    |
| Accuracy         | $\pm 1\%$ for $< 2$ ppm & $\pm 3\%$ for $> 2$ ppm                           |
| Response         | $< 5$ seconds                                                               |
| Reagent Provided | AMSCCLFC (250 Tests) + AMSCCLTC (250 Tests)<br>(Refill Pack also Available) |
| Power            | AAA DC 1.5V x 4 Batteries                                                   |
| Dimension        | 70 x 135 x 65 mm                                                            |
| Weight           | 168 g                                                                       |



Free and Total Chlorine Meter

| Parameter          | Turbidity                                             |
|--------------------|-------------------------------------------------------|
| Model              | APTBO1                                                |
| Range              | 0 - 1000 NTU                                          |
| Resolution         | 0.01 to 1 NTU                                         |
| Accuracy           | $\pm 3\%$ for $< 500$ NTU & $\pm 5\%$ for $> 500$ NTU |
| Response           | $< 5$ seconds                                         |
| Standards Provided | 0, 20, 100, 800 NTU<br>(Refill Pack also Available)   |
| Power              | AAA DC 1.5V x 4 Batteries                             |
| Dimension          | 70 x 135 x 65 mm                                      |
| Meter Weight       | 168 g                                                 |



Turbidity Meter

# Portable Meters

## COD Analyzer



For easy and simple on site testing of COD (Chemical Oxygen Demand), we have a specially designed portable meter which enables a user to analyse COD on site with higher accuracy. Our COD Meter is an Closed reflux method based portable unit that comes with ABS housing, LCD display and all useful accessories enabling users to perform COD test easy and quick. This meter is USEPA compliant and is ideal for COD measurement in wastewater, fresh water in ponds and lakes and determination of detailed COD analysis in laboratories.



### Features :

- Microprocessor based fast and accurate measurements.
- Suitable for Standard Vial Size
- USEPA Compliant Closed Reflux Method
- Designed for Wide Range (Up to 15000 MG/L)
- Fast Detection with Large LCD display.
- Memory and Storage function
- 6 Months Warranty

### Technical Details :

| Parameter          | COD (Chemical Oxygen Demand)                                        |
|--------------------|---------------------------------------------------------------------|
| Model              | APCOD01                                                             |
| Range              | Low: 3 - 150 mg/l   Medium: 20 - 1500 mg/L   High: 200 - 15000 mg/L |
| Wavelength         | 420 - 610 nm                                                        |
| Accuracy           | ± 3% of FS < 1500 mg/L and ± 5% of FS > 1500 mg/L                   |
| Response Time      | < 3 Seconds                                                         |
| Power              | 9V DC Power Adapter or DC 9V Battery                                |
| Dimension & Weight | 230 x 125 x 85 MM   310G                                            |

# Portable Meters

## Digester

For easy and simple on site testing of COD (Chemical Oxygen Demand), we have a specially designed COD Digester which helps in COD digestion process. Our COD reactor is used to digest closed micro reflux COD vial according to Standard Method and helps meet USEPA standards. It makes the process of COD Testing easier and safer than traditional open reflux titrimetric method.



### Features :

- Microprocessor based fast, reliable and accurate
- Suitable for Standard Vial Size
- Predefined COD Program with Timer
- Additional Heating Programs available
- Auto Off and Alarm Functions
- Aluminum heating block with 12 vial capacity
- 6 Months Warranty \*

### Technical Details :

| Parameter        | COD Digester / Dry Bath Incubator   |
|------------------|-------------------------------------|
| Model            | APCODDG1                            |
| Range            | 5 TO 150 Deg C                      |
| Number of Blocks | 12 Holes (Suitable for 16 MM Vials) |
| Stability        | 0.5 Deg C                           |
| Time Range       | 1 Min - 99H 59Min                   |
| Power            | 240V AC 50 HZ (165W)                |
| Dimension        | 152 x 86 x 190 MM                   |
| Meter Weight     | 2500 G                              |



# COD Vials

## COD Digestion Vials



**AQUASOL**  
**DIGITAL**

For easy and simple on site testing of COD (Chemical Oxygen Demand), we have a specially designed ready to use COD Vials. Our COD Vials is based on digest closed micro reflux COD measurement according to Standard Method (ISO 15705:2002) and also helps meet US EPA standards. It makes the process of COD Testing easier and safer than traditional open reflux titrimetric method. These vials are of standard size 16 X 100 MM that are compatible for testing COD with COD Analyzer from all leading brands.

### Features :

- Standard Vial Size (16MM)
- Complies to ISO and EPA Standards
- Compatible with COD Analyzer from leading brands
- Based on closed micro reflux measurement
- Available in Wide Range (Upto 15000 mg/l)
- Economical Refill Pack available for COD Vial Refill.

### Technical Details :

| COD Vial Range (Vials with Reagent) |              |               |                |              |               |                |
|-------------------------------------|--------------|---------------|----------------|--------------|---------------|----------------|
| Model No                            | APCODV1      | APCODV2       | APCODV3        | APCODV11     | APCODV22      | APCODV33       |
| Range                               | 0 - 150 mg/l | 0 - 1500 mg/l | 0 - 15000 mg/l | 0 - 150 mg/l | 0 - 1500 mg/l | 0 - 15000 mg/l |
| No of Vials / Pack                  | 25 Vials     | 25 Vials      | 25 Vials       | 150 Vials    | 150 Vials     | 150 Vials      |

| COD Refill Pack (Reagent Refill only) |              |               |                |
|---------------------------------------|--------------|---------------|----------------|
| Model No                              | APCODR1      | APCODR2       | APCODR3        |
| Range                                 | 0 - 150 mg/l | 0 - 1500 mg/l | 0 - 15000 mg/l |
| No of Refill Tests                    | 100 Tests    | 100 Tests     | 100 Tests      |

# Standard Solution

## pH / Conductivity / ORP / Turbidity

We offer a wide selection of calibration and buffer solutions. All our calibration and buffer solutions are bottled in our stateoftheart solution facility and comply with National and International standards. These solutions are available in a convenient and economical packing with our certification.

| PH Standard Solutions |          |          |
|-----------------------|----------|----------|
| Code                  | Range    | Quantity |
| AMB5PH4               | pH 4.00  | 500 ml   |
| AMB5PH7               | pH 7.00  | 500 ml   |
| AMB5PH10              | pH 10.00 | 500 ml   |
| AMB5PH1               | pH 1.68  | 500 ml   |
| AMB5PH6               | pH 6.86  | 500 ml   |
| AMB5PH9               | pH 9.18  | 500 ml   |
| AMB5PH12              | pH 12.45 | 500 ml   |
| AMB1PH4               | pH 4.00  | 100 ml   |
| AMB1PH7               | pH 7.00  | 100 ml   |
| AMB1PH10              | pH 10.00 | 100 ml   |

| Turbidity Standard Solutions |          |          |
|------------------------------|----------|----------|
| Code                         | Range    | Quantity |
| AMB1T0                       | 0 NTU    | 100 ml   |
| AMB1T10                      | 10 NTU   | 100 ml   |
| AMB1T20                      | 20 NTU   | 100 ml   |
| AMB1T50                      | 50 NTU   | 100 ml   |
| AMB1T100                     | 100 NTU  | 100 ml   |
| AMB1T500                     | 500 NTU  | 100 ml   |
| AMB1T800                     | 800 NTU  | 100 ml   |
| AMB1T1000                    | 1000 NTU | 100 ml   |
| AMB1T2000                    | 2000 NTU | 100 ml   |
| AMB1T4000                    | 4000 NTU | 100 ml   |



100 ml



500 ml

| Conductivity Standard Solutions |                 |          |
|---------------------------------|-----------------|----------|
| Code                            | Range           | Quantity |
| AMB5C1                          | 1413 $\mu$ S/cm | 500 ml   |
| AMB5C2                          | 12.88 ms/cm     | 500 ml   |
| AMB5C3                          | 84 $\mu$ S/cm   | 500 ml   |
| AMB5C4                          | 100 $\mu$ S/cm  | 500 ml   |
| AMB5C5                          | 500 $\mu$ S/cm  | 500 ml   |
| AMB5C6                          | 2764 $\mu$ S/cm | 500 ml   |
| AMB5C7                          | 5 ms/cm         | 500 ml   |
| AMB5C8                          | 111.88 ms/cm    | 500 ml   |
| AMB1C1                          | 1413 $\mu$ S/cm | 100 ml   |

| ORP Standard Solutions |        |          |
|------------------------|--------|----------|
| Code                   | Range  | Quantity |
| AMB1ORP                | 475 MV | 100 ml   |
| AMB5ORP                | 475 MV | 500 ml   |

| Other Solutions (100 ML) |                         |
|--------------------------|-------------------------|
| Code                     | Range                   |
| AMB1PHE                  | pH Electrode Storage    |
| AMB1DOZ                  | DO Zero Solution        |
| AMB1DOE                  | DO Electrolyte Solution |

| COD Standard Solutions |           |          |
|------------------------|-----------|----------|
| Code                   | Range     | Quantity |
| AMB1D100               | 100 PPM   | 100 ml   |
| AMB1D500               | 500 PPM   | 100 ml   |
| AMB1D1000              | 1000 PPM  | 100 ml   |
| AMB1D5000              | 5000 PPM  | 100 ml   |
| AMB1D10000             | 10000 PPM | 100 ml   |



# Table Top Meters

## pH / Conductivity / TDS / ORP



To analyse parameters like pH, ORP, Conductivity & TDS in industries we have specially developed reliable, accurate and economical Table Top meters. These meters have large screens which enhance the measuring performance and provide accurate readings. The meters have multi-parameter options i.e. same meter can analyse different parameters by just changing an electrode. All meters are advanced microprocessor-based with rugged housing & splash-proof keyboard. It has an optional Built-in Bluetooth function for remote printing and USB Interface for data storage.

### Features :

- Advance Microprocessor based Design
- Large LCD display for simultaneous readings.
- Splash Proof Keyboard and Separate Electrode Stand.
- Built in ATC (Automatic Temperature Compensation).
- Advance Storage / Memory function with USB
- Connectivity. 6 Months Warranty \*

### Technical Details :

| Model              | ABTPH                                                                                                                                         |           |                |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|
| Parameter          | pH                                                                                                                                            | ORP*      | Temp           |
| Range              | (-)2.00 to 16.00                                                                                                                              | ± 1999 mV | 0 to 100 Deg C |
| Accuracy           | ±1%                                                                                                                                           | ±2%       | ±0.2           |
| Resolution         | 0.01 pH                                                                                                                                       | 1 mV      | 0.1 Deg C      |
| ATC (Yes)          | 0 to 100 Deg C                                                                                                                                |           |                |
| Weight & Dimension | 240 × 170 × 80 mm (1500 Gms)                                                                                                                  |           |                |
| Sensor (Default)   | pH electrode (AMEPHLG) and Temp Sensor (AMETTABTP) is provided along with meter. To measure ORP kindly purchase separate electrode (AMEORLG). |           |                |

| Model              | ABTTDS                                                                                               |                |                |                |
|--------------------|------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|
| Parameter          | Conductivity                                                                                         | TDS            | Salinity       | Temp           |
| Range              | 0.0 to 200 mS/cm                                                                                     | 0.0 to 100 PPT | 0.0 to 100 PPT | 0 to 100 Deg C |
| Accuracy           | 1%                                                                                                   | 1%             | 1%             | ±0.2           |
| Resolution         | 1 uS/cm                                                                                              | 1 PPM          | 1 PPM          | 0.1 Deg C      |
| ATC (Yes)          | 0 to 100 Deg C                                                                                       |                |                |                |
| Weight & Dimension | 240 × 170 × 80 mm (1500 Gms)                                                                         |                |                |                |
| Sensor (Default)   | TDS/Conductivity electrode (AMECNLG) (K=1) and Temp Sensor (AMETTABTP) is provided along with meter. |                |                |                |

| Model              | ABTPCT                                                                                                                                                              |           |                  |                |                |                |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|----------------|----------------|----------------|
| Parameter          | pH                                                                                                                                                                  | ORP*      | Conductivity     | TDS            | Salinity       | Temp           |
| Range              | (-)2.00 to 16.00                                                                                                                                                    | ± 1999 mV | 0.0 to 200 mS/cm | 0.0 to 100 PPT | 0.0 to 100 PPT | 0 to 100 Deg C |
| Accuracy           | 1%                                                                                                                                                                  | 2%        | 1%               | 1%             | 1%             | ±0.2           |
| Resolution         | 0.01 pH                                                                                                                                                             | 1 mV      | 1uS/cm           | 1 PPM          | 1 PPM          | 0.1            |
| ATC (Yes)          | 0 to 100                                                                                                                                                            |           |                  |                |                |                |
| Weight & Dimension | 240 × 170 × 80 mm (1500 Gms)                                                                                                                                        |           |                  |                |                |                |
| Sensors (Default)  | pH electrode (AMEPHLG), TDS Sensor (AMECNLG) and Temp Sensor (AMETTABTP) is provided along with meter, to measure ORP kindly purchase separate electrode (AMEORLG). |           |                  |                |                |                |

# Bench Top Meters

pH / Conductivity / TDS /  
ORP / DO / O<sub>2</sub>

**AQUASOL**  
**DIGITAL**



To analyse parameters like pH, ORP, Conductivity & TDS in industries we have specially developed reliable, accurate and economical Table Top meters. These meters large screens which enhances the measuring performance and provides accurate readings. The meters have multi parameter options i.e. same meter can analyse different parameters by just changing an electrode. All meters are advanced microprocessor based with rugged housing & splash proof keyboard. It has a optional Built-in Bluetooth function for remote printing and USB Interface for data storage.

## Features :

- Advance Microprocessor design with splash proof keyboard.
- Built-in Stirrer with electrode holder for convenience.
- Large LCD display for multi parameter display simultaneously.
- Built in ATC (Automatic Temperature Compensation).
- Advance Storage / Memory function with USB Connectivity.
- 6 Months Warranty \*

## Technical Details :

| Model            | ABPH01                                                                                                                                               |           |                |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|
| Parameter        | pH                                                                                                                                                   | ORP*      | Temp           |
| Range            | (-)2.00 to 16.00                                                                                                                                     | ± 1999 mV | 0 to 110 Deg C |
| Accuracy         | 1%                                                                                                                                                   | 2%        | ±0.2           |
| Resolution       | 0.01 pH                                                                                                                                              | 1 mV      | 0.1 Deg C      |
| Sensor (Default) | pH electrode (AMEPHLG) and Temperature Sensor (AMETBENCH) is provided along with meter. To measure ORP kindly purchase separate electrode (AMEORLG). |           |                |

| Model            | ABDO01                                                                                                                                                                        |           |                 |                |                |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------|----------------|----------------|
| Parameter        | pH                                                                                                                                                                            | ORP       | DO              | O <sub>2</sub> | Temp           |
| Range            | ()2.00 to 16.00                                                                                                                                                               | ± 1999 mV | 0 to 20.00 mg/L | 0 to 200.0 %   | 0 to 110 Deg C |
| Accuracy         | 1%                                                                                                                                                                            | 2%        | 2%              | 2%             | ±0.2           |
| Resolution       | 0.01 pH                                                                                                                                                                       | 1 mV      | 0.01 mg/L       | 0.01           | 0.1 Deg C      |
| Sensor (Default) | pH electrode (AMEPHLG), DO Electrode (AMEDOABD4) and Temperature Sensor (AMETBENCH) is provided alongwith meter. To measure ORP kindly purchase separate electrode (AMEORLG). |           |                 |                |                |

| Model            | ABTDS01                                                                                                                                                                                        |           |                |               |             |                |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|---------------|-------------|----------------|
| Parameter        | pH                                                                                                                                                                                             | ORP*      | Conductivity   | TDS           | Salt        | Temp           |
| Range            | ()2.00 to 16.00                                                                                                                                                                                | ± 1999 mV | 0 to 100 mS/cm | 0 to 66.0 ppt | 0 to 50 ppt | 0 to 110 Deg C |
| Accuracy         | 1%                                                                                                                                                                                             | 2%        | 1%             | 1%            | 1%          | ±0.2           |
| Resolution       | 0.01 pH                                                                                                                                                                                        | 1 mV      | 1uS/cm         | 1 PPM         | 1 PPM       | 0.1            |
| Sensor (Default) | pH electrode (AMEPHLG), Conductivity/TDS Sensor (AMECNLGD4) (K=1) and Temperature Sensor (AMETBENCH) is provided alongwith meter. To measure ORP kindly purchase separate electrode (AMEORLG). |           |                |               |             |                |

# Online Meters

## pH / Conductivity / TDS / ORP



Monitoring of PH / ORP / TDS / Conductivity is commonly required in a wide variety of industries ranging from water, chemical, pharmaceutical, food processing etc. So our online range of meters helps to monitor the process PH / ORP / TDS / Conductivity /Temperature on continuous basis. These reliable, accurate and robust meters are designed with a compact housing which fits in standard industry panel with 1/16 DIN fitting. Also these meters can be easily calibrated and can display multiple parameters at the same time.

### Features:

- ▶ Microprocessor based for fast and accurate measurements.
- ▶ Weatherproof Case and Compact Design.
- ▶ 1/16 DIN Fitting on the standard industry panel
- ▶ Large Backlight LCD Display
- ▶ Easy to Calibrate by one keyboard
- ▶ 6 Months Warranty \*

### Technical Details:

| Model No             | AOPH01                                                                                                                                                                                                     |           |               |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------|
| Parameter            | pH                                                                                                                                                                                                         | ORP       | Temperature   |
| Range                | (-)2.00 to 16.00                                                                                                                                                                                           | ± 1000 mV | 0 to 90 Deg C |
| Accuracy             | 1%                                                                                                                                                                                                         | 2%        | ±0.2          |
| Resolution           | 0.01 PH                                                                                                                                                                                                    | 1 mv      | 0.1 Deg C     |
| Power                | 9V DC (2 Pin 230VAC Adapter Provided)                                                                                                                                                                      |           |               |
| Dimensions           | 45mm x 45mm x 110mm, Mounting: 1/16 DIN Panel Mount (Cut out Size : 45 x 45 mm)                                                                                                                            |           |               |
| Meter Weight         | Meter + Electrode 750g                                                                                                                                                                                     |           |               |
| Sensor* (By Default) | AMEPHIGT - pH Industrial Electrode<br>Connection: 3/4", Temp I/P: 30K Thermister, Material: Glass Sensor with PVC Housing. Length: 5M, Temperature Range: Upto 90 DegC Pressure Range: Upto 5kg/cm, 4 Wire |           |               |



| Model No             | AOTDS01                                                                                                                                                                                                              |               |               |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
| Parameter            | TDS                                                                                                                                                                                                                  | Conductivity  | Temperature   |
| Range                | 0 to 13000 PPM                                                                                                                                                                                                       | 0 to 20 mS/cm | 0 to 90 Deg C |
| Accuracy             | 1%                                                                                                                                                                                                                   | 1%            | ±0.2          |
| Resolution           | 1ppm                                                                                                                                                                                                                 | 1uS/cm        | 0.1 Deg C     |
| Power                | 9V DC (2 Pin 230VAC Adapter Provided)                                                                                                                                                                                |               |               |
| Dimensions           | 45mm x 45mm x 110mm, Mounting: 1/16 DIN Panel Mount (Cut out Size : 45 x 45 mm)                                                                                                                                      |               |               |
| Meter Weight         | Meter + Electrode 750g                                                                                                                                                                                               |               |               |
| Sensor* (By Default) | AMECNIGT - Conductivity Industrial Electrode<br>Connection: 3/4", Temp I/P: 30K Thermister, Material: Glass Sensor with PVC Housing. Length: 5M, Temperature Range: Upto 90 DegC Pressure Range: Upto 5kg/cm, 4 Wire |               |               |

**Note: Any change in sensor model will be charged extra. Confirm sensor model before ordering.**

# Online Controller

## pH / Conductivity / TDS / ORP



PH / ORP / TDS / Conductivity are the primary controlling parameters for any process used in a wide variety of industries ranging from water, chemical, pharmaceutical, food processing etc. Our online controllers are used to monitor these process parameters continuously and helps to take corrective action with its relay & current outputs. These reliable, accurate and robust meters are designed with a compact housing which fits in standard industry panel. Also these meters can be easily calibrated and can display multiple parameters at the same time.

### Features:

- ▶ Microprocessor based for fast and accurate measurements.
- ▶ Weatherproof Case and Compact Design (IP 54)
- ▶ Programmable Relay & 4 to 20mA Outputs
- ▶ Programmable High & Low Alarm functions
- ▶ 1/4 DIN Fitting on the Standard Industry Panel
- ▶ Galvanic separation between Input, Output & Supply
- ▶ Auto Buffer Adjustment (ATC)

### Technical Details:

| Model No             | AOCPH01                                                                                                                                                                                                                   |           |                |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|
| Parameter            | pH                                                                                                                                                                                                                        | ORP       | Temperature    |
| Range                | 0 to 14.00                                                                                                                                                                                                                | ± 2000 MV | 0 to 100 Deg C |
| Accuracy             | 1%                                                                                                                                                                                                                        | 2%        | ±0.2 DegC      |
| Resolution           | 0.01 PH                                                                                                                                                                                                                   | 1 mv      | 0.1 Deg C      |
| Power Supply         | 220 VAC @ 50 Hz (Stabilized)                                                                                                                                                                                              |           |                |
| Relay Output         | 2 Programmable Relay Outputs (Max: 250V/10A). For direct Valve/Pump Operation for Low and High Level Cutoff                                                                                                               |           |                |
| Current Output       | 4 to 20 mA Isolated DC Output (Max Load : 750 Ω). Analog Output for communication with Control System.                                                                                                                    |           |                |
| Dimensions           | Size: 96 × 96 × 110 mm, Mounting Details: 1/4 DIN Panel Mount (Cut out Size : 92 x 92 mm)(Depth: 110 mm)                                                                                                                  |           |                |
| Sensor* (By Default) | AMEPHIGP - pH Industrial Electrode<br>Process Connection: 3/4", Temp I/P: PT 100, Material: Glass Sensor in PVC Housing. Dimensions: 28 x 165 mm, Length: 5M, Temp Range: Upto 90 DegC, Max Pressure: 5kg/cm <sup>2</sup> |           |                |



| Model No             | AOCTDS01                                                                                                                                                                                                                                           |                |                |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|
| Parameter            | TDS                                                                                                                                                                                                                                                | Conductivity   | Temperature    |
| Range                | 0 to 10000 PPM                                                                                                                                                                                                                                     | 0 to 100 mS/cm | 0 to 100 Deg C |
| Accuracy             | 1%                                                                                                                                                                                                                                                 | 1%             | ±0.2 DegC      |
| Resolution           | 1 PPM                                                                                                                                                                                                                                              | 1 µS/cm        | 0.1 Deg C      |
| Power Supply         | 220 VAC @ 50 Hz (Stabilized)                                                                                                                                                                                                                       |                |                |
| Relay Output         | 2 Programmable Relay Outputs (Max: 250V/10A). For direct Valve/Pump Operation for Low and High Level Cutoff                                                                                                                                        |                |                |
| Current Output       | 4 to 20 mA Isolated DC Output (Max Load : 750 Ω). Analog Output for communication with Control System.                                                                                                                                             |                |                |
| Dimensions           | Size: 96 × 96 × 110 mm, Mounting Details: 1/4 DIN Panel Mount (Cut out Size : 92 x 92 mm)(Depth: 110 mm)                                                                                                                                           |                |                |
| Sensor* (By Default) | AMECNIGP - Conductivity Industrial Electrode<br>Cell Constant K=1, Process Connection: 3/4", Temp I/P: PT 100, Material: Glass Sensor in PVC Housing. Dimensions: 28 x 165 mm, Length: 5M, Temp Range: Max 90 DegC, Max Press: 5kg/cm <sup>2</sup> |                |                |

**Note:** Any change in sensor model will be charged extra. Confirm sensor model before ordering.

# Laboratory Electrodes

## pH / Conductivity / TDS / ORP



Measurement of parameters like pH, TDS, Conductivity, ORP etc in laboratory are regularly performed in major industries, thus we provide an economical, accurate and reliable Laboratory electrodes. These electrodes are specially designed with high performance plastic body for precise measurement and they are compatible with all the major meters and Indicators. These electrodes can also be installed on measured surface or devices using a unique designed ½" NPT connector available with us.

### Features :

- ▶ Low maintenance, non-refillable, economical
- ▶ High Performance Plastic Body
- ▶ Built In Temperature Sensor
- ▶ Convenient installation using ½" NPT connector.



### pH Laboratory Electrode

| Model                 | AMEPHLG       | AMEPHLGP | AMEPHLGT       | AMEPHLE       | AMEPHLEP | AMEPHLET       |
|-----------------------|---------------|----------|----------------|---------------|----------|----------------|
| Range                 | 0 to 14       | 0 to 14  | 0 to 14        | 0 to 14       | 0 to 14  | 0 to 14        |
| Built in Temp. Sensor | No            | PT 100   | 30K Thermistor | No            | PT 100   | 30K Thermistor |
| Operating Temperature | Upto 90 Deg C |          |                | Upto 70 Deg C |          |                |
| Body Material         | Glass         |          |                | Plastic       |          |                |
| Process Connection    | Laboratory    |          |                | Laboratory    |          |                |
| Meter Connection      | BNC           |          |                | BNC           |          |                |
| Dimensions (D x H)    | 12 x 120 mm   |          |                | 12 x 120 mm   |          |                |
| Cable Length          | 1M            |          |                | 1M            |          |                |

### ORP Laboratory Electrode

| Model                 | AMEORLG       | AMEORLE       |
|-----------------------|---------------|---------------|
| Range                 | ± 2000 mv     | ± 2000 mv     |
| Built in Temp. Sensor | No            | No            |
| Operating Temperature | Upto 90 Deg C | Upto 70 Deg C |
| Body Material         | Glass         | Plastic       |
| Process Connection    | Laboratory    | Laboratory    |
| Meter Connection      | BNC           | BNC           |
| Dimensions (D x H)    | 12 x 120 mm   | 12 x 120      |
| Cable Length          | 1M            | 1M            |



### Conductivity Laboratory Electrode

| Model                 | AMECNLG       | AMECNLGP | AMECNLGT       | AMECNLE       | AMECNLEP | AMECNLET       |
|-----------------------|---------------|----------|----------------|---------------|----------|----------------|
| Cell Constant 'K'     | K = 1         | K = 1    | K = 1          | K = 1         | K = 1    | K = 1          |
| Built in Temp. Sensor | No            | PT 100   | 30K Thermistor | No            | PT 100   | 30K Thermistor |
| Operating Temperature | Upto 90 Deg C |          |                | Upto 70 Deg C |          |                |
| Body Material         | Glass         |          |                | Plastic       |          |                |
| Process Connection    | Laboratory    |          |                | Laboratory    |          |                |
| Meter Connection      | BNC           |          |                | BNC           |          |                |
| Dimensions (D x H)    | 12 x 120 mm   |          |                | 12 x 120 mm   |          |                |
| Cable Length          | 1M            |          |                | 1M            |          |                |



# Laboratory Electrodes

## pH / Conductivity / TDS / ORP



We understand the need for continuous monitoring of parameters like pH, TDS, Conductivity, ORP etc in major industries, thus we provide economical, accurate and reliable industrial electrodes. These electrodes are specially designed for online monitoring and they are compatible with all the major Indicators & Controllers.

### Features :

- Advanced Protective Case Design
- Built In Temperature Sensor
- Sealed Double Junction Reference.
- High Performance Thermoplastic Body
- Convenient flow-through installation.
- Compatible with major meters

### pH Industrial Electrode

| Model                 | AMEPHIG        | AMEPHIGP | AMEPHIGT       |
|-----------------------|----------------|----------|----------------|
| Range                 | 0 to 14        | 0 to 14  | 0 to 14        |
| Built in Temp. Sensor | No             | PT 100   | 30K Thermistor |
| Operating Temperature | Upto 100 Deg C |          |                |
| Body Material         | PVC            |          |                |
| Process Connection    | 3/4"           |          |                |
| Meter Connection      | BNC            |          |                |
| Dimensions (D x H)    | 28 x 165 mm    |          |                |
| Cable Length          | 5M             |          |                |



### Conductivity Industrial Electrode

| Model                 | AMECNIG        | AMECNIGP | AMECNIGT       | AMECNOS        | AMECNOSP | AMECNOST       |
|-----------------------|----------------|----------|----------------|----------------|----------|----------------|
| Cell Constant 'K'     | K = 1          | K = 1    | K = 1          | K = 1          | K = 1    | K = 1          |
| Built in Temp. Sensor | No             | PT 100   | 30K Thermistor | No             | PT 100   | 30K Thermistor |
| Operating Temperature | Upto 100 Deg C |          |                | Upto 100 Deg C |          |                |
| Body Material         | PVC            |          |                | SS             |          |                |
| Process Connection    | 3/4"           |          |                | 3/4"           |          |                |
| Meter Connection      | BNC            |          |                | BNC            |          |                |
| Dimensions (D x H)    | 28 x 165       |          |                | 30 x 70        |          |                |
| Cable Length          | 5M             |          |                | 5M             |          |                |



### ORP Industrial Electrode

| Model                 | AMEORIG        | AMEORIGP  | AMEORIGT       |
|-----------------------|----------------|-----------|----------------|
| Range                 | ± 2000 mv      | ± 2000 mv | ± 2000 mv      |
| Built in Temp. Sensor | NA             | PT 100    | 30K Thermistor |
| Operating Temperature | Upto 100 Deg C |           |                |
| Body Material         | PVC            |           |                |
| Process Connection    | 3/4"           |           |                |
| Meter Connection      | BNC            |           |                |
| Dimensions (D x H) mm | 28 x 165       |           |                |
| Cable Length          | 5M             |           |                |

### Note:

Product Warranty for manufacturing defects only. Warranty Card filled with all details required to process claim. Our products can be easily installed and used by following instruction as per product manual or on Phone support. If still Site Visit for Installation or Service is required it will be charged extra as per requirement.

# UDAAQ

## COMPLETE WATER SOLUTIONS

We have in our repertoire a basket full of Water Treatment Chemical Formulations, manufactured to international quality standards for various applications. Our high performance chemical treatment products are used successfully in many of the industrial process environments where they help to reduce cost by improving the productivity & optimizing performance. Our range of formulations include water treatment chemicals for the following systems.

## REVERSE OSMOSIS CHEMICALS

Reverse Osmosis (R.O.) is commonly used for desalination (demineralization) and purification of water as it proves economical in the long run. The performance of a R.O. system gets hampered due to impurities that build up on the membrane surface during operations. Suspended solids, microorganisms and mineral scale can foul membrane elements. These deposits can cause loss in output and/or rejection levels and reduce total system performance. Our formulations based on modern polymers help to greatly reduce deposits, impurities, and scale in your system's membranes. Our NSF Certified (NSF/ANSI 60) range of formulated Antiscalants, Antifoulants and Cleaners are specially designed chemicals that keep these contaminants from attaching to the membrane surface. They also prove economical in the long run.



### R O ANTI-SCALANT (CERTIFIED TO NSF/ANSI 60)

Scaling is caused in membranes because the level of hardness salts in the water becomes highly concentrated as it passes through the RO unit. In smaller units scale formation can be prevented by base exchange softening the make-up water but for larger systems that is very expensive. We have developed a range of easy to handle, cost effective RO Antiscalant which increase the solubility of the hardness salts so they remain in solution rather than forming scale on the membrane. Our cost effective advance Polymer based RO antiscalants will inhibit a wide range of foulants including: calcium carbonate, calcium sulphate, barium sulphate, strontium sulphate, calcium fluoride, silica and iron.

| Sr | Product Code | Product Description                                        | Packing        |
|----|--------------|------------------------------------------------------------|----------------|
| 1  | WTRD300      | For Moderate TDS & Silica (NSF Certified)                  | 5/20/35/50 Kgs |
| 2  | WTRD301      | For Moderate TDS & Silica (High pH) (NSF Certified)        | 5/20/35/50 Kgs |
| 3  | WTRD310      | For Moderate TDS & High Silica (NSF Certified)             | 5/20/35/50 Kgs |
| 4  | WTRD320      | For High TDS & High Silica (NSF Certified)                 | 5/20/35/50 Kgs |
| 5  | WTRD305      | For Moderate TDS & Silica (with Phosphate) (NSF Certified) | 5/20/35/50 Kgs |

### R O CLEANER (CERTIFIED TO NSF/ANSI 60)

Regular chemical cleaning of RO membranes will help to increase its performance and will extend its useful life. The main concern with cleaning is that it should be done before the situation gets too bad as then the membrane may become fouled and will have to be replaced. Cleaning should be undertaken regularly after a predetermined interval. Our NSF Certified Cleaner are highly effective cleaning chemical which very effectively removes deposits including carbonate, silicate, sulphate, phosphate of Calcium, Barium, Strontium, scales, deposits including colloids and organic biofoulants

| Sr | Product Code | Product Description              | Packing        |
|----|--------------|----------------------------------|----------------|
| 1  | WTROC1600    | Acidic Cleaner (NSF Certified)   | 5/20/35/50 Kgs |
| 2  | WTROC1800    | Alkaline Cleaner (NSF Certified) | 5/20/35/50 Kgs |

### R O BIOFOULING CLEANER (CERTIFIED TO NSF/ANSI 60)

Our micro biocide is highly effective against all type of biofilm including sessile & planktonic organisms. It helps to cleans organic debris and biofilm & keeps the membrane surface free from biofouling. Its Broad spectrum efficacy makes it compatible with tap water, brackish water, sea water & other chlorine resistance membranes.

| Sr | Product Code | Product Description                                                        | Packing        |
|----|--------------|----------------------------------------------------------------------------|----------------|
| 1  | WTROB700     | Biofouling Cleaner (Isothiozoline Based)                                   | 5/20/35/50 Kgs |
| 2  | WTROB800     | Biofouling Cleaner (Nano Silver & Hydrogen Peroxide Based) (NSF Certified) | 5/20/35/50 Kgs |
| 3  | WTROB900     | Biofouling Cleaner (DBNPA Based) (NSF Certified)                           | 5/20/35/50 Kgs |

### PH BOOSTER (CERTIFIED TO NSF/ANSI 60)

The control of water pH and alkalinity levels is very important in order to reduce corrosion. Depending on the natural feed water alkalinity, it is often necessary to add an alkalinity builder in order to establish the correct water chemistry by raising the water pH which helps to protect the system from acid corrosion.

| Sr | Product Code | Product Description                        | Packing        |
|----|--------------|--------------------------------------------|----------------|
| 1  | WTP200       | To Increase pH in RO Water (NSF Certified) | 5/20/35/50 Kgs |

# BOILER CHEMICALS

Primary function of a boiler is to transfer heat into water until it becomes hot or turns to steam. Boiler feed water often contains impurities, which impair boiler operation and efficiency. Therefore to improve feed water quality and steam purity Pretreatment and chemical treatment of the water is very important. To ensure boiler systems are correctly maintained and operate at optimum efficiency it is essential to carefully select the formulation. Our comprehensive range of high performance formulations have been scientifically formulated to deliver significant operational benefits and performance improvements. Our extensive range of formulated boiler water treatment chemicals help to minimize scale formation, metallic corrosion and sludge deposition. This helps to increase efficiency, reduce fuel consumption, decrease operating and maintenance costs and extend equipment lifetime.



## BOILER MULTIPURPOSE – SCALE, CORROSION INHIBITOR & SLUDGE CONDITIONER (CERTIFIED TO NSF)

Our multipurpose boiler water treatment chemicals have been designed to offer multi-component boiler protection in a single chemical product. It is a special product designed to prevent scale and corrosion on the waterside surfaces of medium-and-low pressure boilers using unsoftened feed water. It is a combination of modern water treatment chemicals comprising of chemical softening agents, sludge conditioners and oxygen scavenger which protect the feed lines and the boiler from scale and corrosion. This brings convenience of using a single chemical treatment product, with multifunctional protection capabilities to deliver all-round boiler protection.

| Sr | Product Code | Product Description   | Packing   |
|----|--------------|-----------------------|-----------|
| 1  | WT1010       | For Fire Tube Boiler  | 35KG/50KG |
| 2  | WT1020       | For Water Tube Boiler | 35KG/50KG |

## BOILER WATER - OXYGEN SCAVENGER / CORROSION INHIBITOR (CERTIFIED TO NSF)

Metallic corrosion due to oxygen is a major concern in the operation and maintenance of industrial boiler systems and steam plants. Oxygen derived from boiler water will corrode metallic components leading to increased maintenance costs and reduced boiler efficiency. Our specially formulated oxygen scavenger helps in rapid and complete removal of dissolved oxygen from feed water and boiler water. It is an instant oxygen scavenger & normal reaction time with oxygen is only 15 to 20 second at ambient temperatures.

| Sr | Product Code | Product Description            | Packing   |
|----|--------------|--------------------------------|-----------|
| 1  | WT3010       | Sulphite Based (NSF Certified) | 35KG/50KG |
| 2  | WT3030       | Hydrazine Based                | 35KG/50KG |

## BOILER WATER - ANTISCALANT WITH SLUDGE CONDITIONER (CERTIFIED TO NSF)

Boiler water sludge is caused by salts and traces of suspended matter present in operational steam boilers and feed waters. Our boiler Antiscalant with sludge conditioner is designed to combat the accumulation and build-up of boiler sludge as it represents a modern concept in the chemical treatment of boiler sludge.

| Sr | Product Code | Product Description         | Packing   |
|----|--------------|-----------------------------|-----------|
| 1  | WT2110       | Phosphate Based Antiscalant | 35KG/50KG |

## BOILER WATER - PH BOOSTER (CERTIFIED TO NSF)

The control of water pH and alkalinity levels is very important in low- and medium-pressure boilers to reduce corrosion. Our unique formulation is an all-in-one precise blend of alkalinity builder, softening agent and synthetic organic sludge conditioner. It helps to protect your boiler system from acidic corrosion as it is designed specifically for low hardness softened water and demineralized Water.

| Sr | Product Code | Product Description             | Packing   |
|----|--------------|---------------------------------|-----------|
| 1  | WT1462       | To Increase PH in Boiler System | 35KG/50KG |

## BOILER CONDENSATE WATER - NEUTRALIZING AMINE (CERTIFIED TO NSF)

Condensate systems have problems caused by iron and copper corrosion, neutralizing amines are used to neutralize the acid (H+) generated in the condensate. They control corrosion in the condensate system by maintaining a protective coating of iron oxide over the metal surfaces, while supplying sufficient material of an alkaline nature, to neutralize the carbonic acid that is formed in the condensate system. Our formulation is a blend of volatile product for steam condensate treatment that provides the direct neutralization of carbon dioxide and ensures positive corrosion protection.

| Sr | Product Code | Product Description   | Packing   |
|----|--------------|-----------------------|-----------|
| 1  | WTR101       | For Condensate System | 35KG/50KG |

## BOILER WATER - SOFTENING AGENT (CERTIFIED TO NSF)

Our softening agents treat incoming boiler water hardness by sequestering both calcium and magnesium from the feed water preventing its premature deposition & scale formation. We recommend its use with sludge conditioners and dispersants, antifoam and oxygen scavengers to provide more effective treatment.

| Sr | Product Code | Product Description     | Packing   |
|----|--------------|-------------------------|-----------|
| 1  | WT4010       | Phosphate Based Softner | 35KG/50KG |

# COOLING TOWER CHEMICALS

Industrial cooling systems are required to function smoothly. Therefore it is essential that correct cooling water conditions are established and maintained at all times. To ensure cooling systems are correctly maintained and operate at optimum efficiency it is essential to carefully select cooling water treatment chemicals. Our comprehensive range of high performance cooling water treatment chemicals have been scientifically formulated to deliver significant operational benefits and performance improvements to cooling systems that use water as a primary coolant. Our wide range of formulations help to minimize scale, corrosion, fouling and biofouling to ensure trouble free operation of the system.



## COOLING MULTIPURPOSE: ANTISCALANT, CORROSION INHIBITOR AND DISPERSANT (CERTIFIED TO NSF)

Our multipurpose organic corrosion and scale inhibitor is designed for use in industrial cooling systems. It is composed of ingredients that are biodegradable and contains no zinc or heavy metal components. It functions by forming a microscopic inhibitive film on the metal surface that acts as a barrier to prevent or minimize corrosion. It also contains effective polymeric antifoulants and sequestrants to help remove metallic oxide, silt and dead microbiological material to maintain a cleaner and more efficiently operating system.

| Sr | Product Code | Product Description | Packing   |
|----|--------------|---------------------|-----------|
| 1  | WT2000       | For Low TDS System  | 35KG/50KG |
| 2  | WT2870       | For High TDS System | 35KG/50KG |

## COOLING TOWER - ANTISCALANT (CERTIFIED TO NSF)

The unwanted accumulation of scale and detrimental impact of metallic corrosion can be significant issues that affect the operation and maintenance of open and closed cooling water systems. To ensure that such open and closed cooling systems are well maintained and operate at optimum efficiency, it is essential that the correct water conditions are maintained at all times. This can be achieved using carefully selected scale and corrosion inhibitors designed specifically for such cooling systems. Our technologically advanced cooling water scale and corrosion inhibitors have been scientifically formulated to protect cooling systems from the effects of both scale build-

| Sr | Product Code | Product Description | Packing   |
|----|--------------|---------------------|-----------|
| 1  | WTD100       | For Low TDS System  | 35KG/50KG |
| 2  | WTD200       | For High TDS System | 35KG/50KG |

## COOLING TOWER - CORROSION INHIBITOR (CERTIFIED TO NSF)

The impact of metallic corrosion can be a significant issue that affects the operation and maintenance of cooling water systems. To ensure that such cooling systems are well maintained and operate at optimum efficiency it is essential that the correct water conditions are maintained at all times. This can be achieved using carefully selected corrosion inhibitors designed specifically for cooling systems. Our advanced technology cooling water corrosion inhibitors have been scientifically formulated to protect cooling systems from the effects of metallic corrosion.

| Sr | Product Code | Product Description  | Packing   |
|----|--------------|----------------------|-----------|
| 1  | WT2890       | For Corrosive System | 35KG/50KG |

## COOLING TOWER - DISPERSANT (CERTIFIED TO NSF)

The accumulation of microbiological slimes, biofilm and general bio-fouling in cooling water systems reduces system efficiency, increases operating and maintenance costs. If ignored leads to under deposit and pitting type of corrosion. Our synthetic organic Biodispersant and Bio Dispersant is effective in removing dead algal and slime mass from cooling system. It has a capacity to penetrate inside the thick algae mats on the cooling tower deck or fills and help the biocide to penetrate the biomass. It also has a deterrent effect and it cleans the system on line. Generally it is dosed prior to biocide or along with biocide to enhance its efficacy:

| Sr | Product Code | Product Description             | Packing   |
|----|--------------|---------------------------------|-----------|
| 1  | WTA100       | Bio Dispersant with Antifoulant | 35KG/50KG |
| 2  | WTA201       | Bio Dispersant                  | 35KG/50KG |

## COOLING TOWER BIOCIDES (CERTIFIED TO NSF)

The control of microbiological activity is an important, often safety critical activity in many commercial, manufacturing and industrial process applications. Our Non Oxidizing biocides are effective in controlling bacterial slime and fungal growth in industrial recirculating cooling water systems, air washer systems and evaporate condensers. We have a range of both oxidizing and nonoxidizing biocides, which have a broad spectrum efficacy and are effective over a wide range of pH.

| Sr | Product Code | Product Description (Non Oxidizing Biocide) | Packing   |
|----|--------------|---------------------------------------------|-----------|
| 1  | WTB101       | BKC - Quaternary Ammonium Based             | 35KG/50KG |
| 2  | WTB201       | SDMDC - Carbamate Based                     | 35KG/50KG |
| 3  | WTB900       | CMIT - Isothiazoline Based                  | 35KG/50KG |
| 4  | WTB1100      | DDAC - Quaternary Ammonium Based            | 35KG/50KG |
| 5  | WTB1200      | Bronopol Based Bactericide                  | 35KG/50KG |
| 6  | WTB1900      | Triazine Based Algaecide                    | 35KG/50KG |
| 7  | WTB2100      | THPS Based Biocide                          | 35KG/50KG |

| Sr | Product Code | Product Description (Oxidizing Biocide) | Packing   |
|----|--------------|-----------------------------------------|-----------|
| 1  | WTB660       | Chlorine Based                          | 35KG/50KG |
| 2  | WTB700       | Nano Silver & Hydrogen Peroxide Based   | 35KG/50KG |
| 3  | WTB1300      | DBNPA Based Formulation                 | 35KG/50KG |



### CHILLER PLANT CORROSION INHIBITOR (CERTIFIED TO NSF)

The detrimental impact of metallic corrosion can be a significant issue that affects the operation and maintenance of closed cooling water systems. To ensure that such closed cooling systems are well maintained and operate at optimum efficiency it is essential that the correct water conditions are maintained at all times. This can be achieved using carefully selected corrosion inhibitors designed specifically for cooling systems. Our advanced technology cooling water corrosion inhibitors have been scientifically formulated to protect cooling systems from the effects of metallic corrosion.

| Sr | Product Code | Product Description                 | Packing   |
|----|--------------|-------------------------------------|-----------|
| 1  | WTCT100      | For Closed System (Chilling Plants) | 35KG/50KG |

### COOLING TOWER / CHILLER - CLEANER CHEMICAL (ON LINE ) (CERTIFIED TO NSF)

Our cleaning system has been specially developed to effectively remove deposit, sludge / foulants from the system. It is a blend of specific chelating agents designed for removal of Iron, Calcium and Magnesium based deposits from cooling water systems where it is not practical to remove the tower packing. It is found to be most effective in cleaning, where deposition or oil contamination is suspected of reducing heat transfer or restricting flow available. Deposits are softened and solubilized as our cleaner penetrates the deposits and enhances the action of cooling water dispersants to slough off remaining deposits which are later removed during a blow down.

| Sr | Product Code | Product Description                                                  | Packing   |
|----|--------------|----------------------------------------------------------------------|-----------|
| 1  | WTIC305      | Cooling Tower Cleaner Descaling Chemical                             | 35KG/50KG |
| 2  | WTIC315      | Cooling Tower Cleaner Dispersant Chemical (To be used after WTIC315) | 35KG/50KG |
| 3  | WT1153A      | Chiller Plant Cleaner Descaling Chemical                             | 35KG/50KG |
| 4  | WT1153B      | Chiller Plant Cleaner Dispersant Chemical (To be used after WT1153A) | 35KG/50KG |

## SUGAR PROCESS CHEMICALS

A cane sugar mill converts sugar cane to sugar crystals using a chain of continuous processes like crushing, evaporating, filtering & Distillation. To maximize sugar recovery from each of these processes different sugar process chemicals are used for individual production processes. Our comprehensive ranges of high performance chemicals have been scientifically formulated to deliver significant operational benefits and economize the production process. Use of these chemicals helps the sugar process unit for a trouble free run and achieving maximum recovery of sugar from cane.



### SUGAR PROCESS - MILL SANITATION COMPOUND TO CONTROL BACTERIAL GROWTH

Mill Sanitation Chemicals are broad spectrum biocides that are effective in controlling the growth of algae, bacteria and fungi. They penetrate cell wall, lysis occurs, and metabolites leak out causing death of cell, thereby stunting their growth. Our formulation is a synergistic blend of Biocides which sanitises the mill section & restricts the inversion of sugar in the sugar juice.

| Sr | Product Code | Product Description       | Packing   |
|----|--------------|---------------------------|-----------|
| 1  | WT8100       | Quaternary Ammonium Based | 35KG/50KG |
| 2  | WT8200       | Carbamate Based           | 35KG/50KG |

### SUGAR PROCESS - EVAPORATOR ANTI-SCALANT

Evaporator systems in sugar industries tend to accumulate salts. The first two Evaporator bodies have generally a deposition of carbonate and phosphate, while the third and fourth have sulphates and silicates. These deposits are results of the sulphitation and lime processes done in clarification of the juice. Our formulation is a blend of low molecular weight polymers which helps in protecting the quadruple evaporators from scaling & deposits in multiple ways.

| Sr | Product Code | Product Description                       | Packing   |
|----|--------------|-------------------------------------------|-----------|
| 1  | WT8300       | To Inhibit Carbonate, Sulphate And Silica | 35KG/50KG |

### SUGAR PROCESS - VISCOSITY REDUCER

'C' massecuite consists mainly of highly viscous non sugar material and a low sugar. The non sugar in 'C' massecuite increases the viscosity and hampers the pan boiling. Sometime because of high viscosity uniform boiling is not possible and thus may in turn char the sugar. To avoid this phenomenon the use of viscosity reducer is solicited in the process. Our formulation is a synergistic blend of special chemicals that reduces the viscosity of 'C' massecuite at the time of pan boiling.

| Sr | Product Code | Product Description                   | Packing   |
|----|--------------|---------------------------------------|-----------|
| 1  | WT8400       | To Reduce Viscosity Of 'C' Massecuite | 35KG/50KG |

### SUGAR PROCESS - BAGASSE POL REDUCER

To achieve maximum sugar extraction from crushed cane, sugar losses are to be maintained at a minimum in sugar mills. One of the major losses faced by a sugar factory is the sugar lost in bagasse during processing. Our unique ingredient and the synergistic functions of the formulation help in extraction of additional sucrose from bagasse on line. Its chemical composite helps to leach maximum sugar from bagasse by reduction of pol percentage in bagasse, reduction in moisture of bagasse and prevent non sugar coming out of bagasse.

| Sr | Product Code | Product Description                | Packing   |
|----|--------------|------------------------------------|-----------|
| 1  | WT8500       | To Extract More Sugar From Bagasse | 35KG/50KG |



# SPECIALITY CHEMICALS

We have a wide range of speciality chemicals that are designed on basis of system applications. These chemicals are certified by NSF - USA for use in Food processing Industry.

## AHU (AIR HANDLING UNIT) CLEANER (CERTIFIED TO NSF)

AHU if not cleaned regularly & properly lose their cooling efficiency & consume more electricity which drastically reduces its efficiency. To prevent this problem it is important to clean the AHU regularly. An effective cleaner would keep the AHU free of muck and dust running efficiently, thereby keeping the electricity consumption low. Our inhibited alkaline cleaner is useful in cleaning of Air Handling Units (AHU), Aluminum piston and Radiators. Also it has exceptionally long tank life and does not produce any objectionable odour, so it can be used for heavy duty cleaning at a economical price.

| Sr | Product Code | Product Description    | Packing   |
|----|--------------|------------------------|-----------|
| 1  | WTAHUCLN     | For Aluminium Cleaning | 35KG/50KG |

## RESIN CLEANER (CERTIFIED TO NSF)

Ion exchange resins can become polluted or contaminated with suspended solids, slime, bacteria, and numerous organic or microbiological matters over a time period. Fouling of the resin by iron and organic build up cannot be removed by normal regeneration procedures and can cause gradual performance losses. Our resin cleaner is especially designed to remove bound iron from iron fouled resins and prevent accumulation of fouling conditions to extend the resin life significantly. It will ensure optimum exchange capacity & also keep the softener components clean when used on a regular basis.

| Sr | Product Code | Product Description    | Packing   |
|----|--------------|------------------------|-----------|
| 1  | WTRESCLN     | For Ion Exchange Resin | 35KG/50KG |

## DEFOAMER (ANTI-FOAMER) (CERTIFIED TO NSF)

We provide a complete range of defoamers for different industries such as Adhesive, Agriculture, and Bitumen. Construction, Dyes & Pigments, Emulsion polymerization, Oilfield & petroleum, Paper & Pulp Sugar, Soaps & Detergents, Waste water Treatment. Our Silicon based defoamer is found to be powerful and highly effective due its unique properties & can be used in practically all industrial applications where unwanted foam creates problems in manufacturing.

| Sr | Product Code | Product Description                  | Packing   |
|----|--------------|--------------------------------------|-----------|
| 1  | WTAF10       | Silicon Based Defoaming Agent Low    | 35KG/50KG |
| 2  | WTAF20       | Silicon Based Defoaming Agent Medium | 35KG/50KG |
| 3  | WTAF30       | Silicon Based Defoaming Agent High   | 35KG/50KG |

## SILVER NANO HYDROGEN PEROXIDE (CERTIFIED TO NSF60)

Our Silver Nano Hydrogen Peroxide is effective Micro biocide formulation, an active combination of Nano Silver with Hydrogen Peroxide. It is effective in controlling bacterial growth, algae & fungal growth in all types of Waters and Surfaces. This combination is lethal to microbes, wherein Hydrogen peroxide disrupts microbial cell membrane, while Nano Silver penetrates in the cell, inhibiting enzymes needed for microbial metabolism. The Nano silver also disrupts DNA strands. This is a Food Grade Formulation Certified by NSF-USA under the NSF60 Standard & can be used drinking water application or food processing applications. Our Nano Silver Hydrogen Peroxide formulation have wide usages like eg. Industrial Water treatment, Surface Disinfection, Aerial Disinfection, Swimming Pool Disinfection, Agriculture Products Disinfection and any process required disinfection.

| Sr | Product Code | Product Description                | Packing  |
|----|--------------|------------------------------------|----------|
| 1  | WTSH010      | Nano Silver Hydrogen Peroxide 10 % | 5KG/20KG |
| 2  | WTSH020      | Nano Silver Hydrogen Peroxide 20 % | 5KG/20KG |
| 3  | WTSH025      | Nano Silver Hydrogen Peroxide 25 % | 5KG/20KG |
| 4  | WTSH035      | Nano Silver Hydrogen Peroxide 35 % | 5KG/20KG |
| 5  | WTSH050      | Nano Silver Hydrogen Peroxide 50 % | 5KG/20KG |

*We are consultants to the water industry, wherein we help industries in specialized testing of various water parameters, again both in chemistry as well as microbiology. Also our customized chemical treatment products are used successfully in many of the industrial process environments where they help to reduce cost by improving the productivity & optimizing performance. Our Research and development is an ongoing process for innovating new treatment techniques aimed towards complete satisfaction to the client. Our Industrial Chemicals are formulated with discretion and caution so as to make their properties as environment friendly as possible. Our dedicated workforce is imbued with the same passion in humane approach and our highly advanced infra structural set-up helps us in our mission to deliver high quality products.*

Kindly visit [www.rakiro.net/downloads](http://www.rakiro.net/downloads) to download individual product literatures and material safety datasheet



## FIRESIDE ADDITIVES

The primary aim of combustion is to obtain maximum amount of energy from each unit of fuel. But impurities in fuels and operational problems are limitations to achieve maximum output from burned fuel. The impurities in fuel can lead to formation of slag in furnace, clinkers on the fuel bed and the presence of sulphur can lead to the cold end corrosion. It is possible to improve the combustion of fuel and reduce unburnt carbon in the ash. Our fireside additive plays an important role in complete combustion of fuel along with a control on corrosion deposits, slagging clinker formation, reduction in air borne pollution emission as well as inhibition of fouling.



### SOLID FUEL ADDITIVE

Our Multipurpose Solid Fuel Additive is a free flowing powder treatment designed primarily for treating coal, wood, bagasse, biomass and other solid fuels. It acts as combustion catalyst and thereby loss due to unburnt fuel gets minimized resulting in improved combustion efficiency. It has an anti-fouling agent that helps to keep heat transfer surfaces clean and thus improves the steam generation for same heat transfer area. It softens the hard clinker and reduces the tendency of hard clinker formation, thus helps in reducing the maintenance & provide ease in cleaning and increase the boiler availability for long term operation. It promotes smoke free combustion at lower excess air levels, resulting in improved fuel economy.

| Sr | Product Code | Product Description   | Standard Packing |
|----|--------------|-----------------------|------------------|
| 1  | AGN6100      | Coal Fuel Additive    | 25 Kg / 50 kg    |
| 2  | AGN6200      | Bagasse Fuel Additive | 25 Kg / 50 kg    |
| 3  | AGN6300      | Wood Fuel Additive    | 25 Kg / 50 kg    |
| 4  | AGN6400      | Biomass Fuel Additive | 25 Kg / 50 kg    |

### FURNACE POST TREATMENT COMPOUND

Our Furnace Post Treatment compound is a perfect blend of combustion aid chemicals in the form of tube canister for fire side cleaning of furnace. It also comprises of combustion catalyst, oxidizing chemicals, dispersants and corrosion inhibitors. When it enters the furnace it vaporizes to form a thin film on the furnace wall to complete the combustion of unburnt carbon and remove all the deposits from the heat transfer surface. It is available in small packets to simplify the dosing process for a boiler. The cleaning of furnace wall improves the heat transfer and boiler efficiency with minimum breakdown.

| Sr | Product Code | Product Description       | Standard Packing |
|----|--------------|---------------------------|------------------|
| 1  | AGN6000      | Furnace Cleaning Chemical | 25 Kg / 50 Kg    |

## ADVANTAGES OF USING FIRESIDE ADDITIVES

### Combustion Process without Additives

Incomplete Combustion of fuel

Slag & Clinker Formation

Corrosion of surface & Cold Corrosion

Acid Smut Formation

Unburned Carbon in Ash

Increase Fuel Consumption

Decrease in Furnace Efficiency

Increases Particulate Matter from Stack

### Combustion Process with Additives

Complete Combustion of Fuel

Reduced Slag & Clinker Formation

Minimizes Corrosion & Cold Corrosion

Reduces Acid Smut Formation

Decrease in Unburned Carbon in Ash

Reduces Fuel Consumption

Increase in Furnace Efficiency

Decreases Particulate Matter from Stack

# Our Clients



# Our Network



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