ANALYTICAL TOOLS	METHOD	RANGE
TDS Meter	**Instrumental**	**Upto 1900 ppm and upto 10 ppt**
Conductivity Meter	**Instrumental**	**Upto 1900 uS/cm and upto 19.9 mS/cm**
pH Meter	**Instrumental**	**0 - 14**
Dip Slides - For analysis of total bacterial and E-Coli count	**Slides**	"
Cation Conductivity Column	**Resin**	"

Experience the benefits with INDION® EASYTEST

TRADITIONAL WAY	EASYTEST WAY
Water sample has to be taken to the laboratory	Water sample can be tested on the spot, at site
Testing requires glassware, burretes, solutions	Testing is simple with easy-to-use outfits
Requires a trained chemist	Can be done by an operator
Time lag between sampling and result. Possibility of change in sample during storage	Results are quick; no possibility of change in sample during storage
Frequency of testing restricted	Testing can be done as frequently as desired
Accurate	Accurate within defined limits

INDION® EASYTEST Water Quality products are manufactured to stringent ISO 9001, ISO 14001 & ISO 45001 standards and are readily available with our countrywide network of dealers and service companies.

ION EXCHANGE (INDIA) LTD.

Corporate Office
Ion House, Dr. E. Moses Road, Mahalaxmi,
Mumbai - 400011 | Tel: +91 22 6231 2000
E-mail: ieil@ionexchange.co.in

International Division
R-14, T.T.C MIDC, Thane - Belapur Road, Rabale,
Navi Mumbai - 400 701 | Tel: +91 22 6857 2400
E-mail: export.sales@ionexchange.co.in

Regional and Branch Offices
Bengaluru | Bhubaneswar | Chandigarh | Chennai
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ION EXCHANGE
Refreshing the Planet

Regular analysis of water is essential for the maintenance of raw water, potable water boilers, cooling towers, softeners and demineralisers — vital to the operations of almost all process industries. Ion Exchange offers a complete range of INDION EASYTEST Water Quality Products — individual outfits, combination kits and refills to accomplish this task.

Conventional procedures for water analysis require elaborate laboratory set-up and qualified personnel. The INDION EASYTEST Water Quality Products replace analytical procedures such as titrimetric, colorimetric/spectrophotometric by simple drop test and standard colour comparison methods. These can be carried out by the operators themselves, making monitoring and preventive action very quick and convenient.

INDION EASYTEST is a simpler adaptation of classical chemical analysis methods mainly based on standard methods for examination of water and waste water.

Combination Kit

***INDION*® Cooling Water Analysis Kit:** It contains all important tests in a universally accepted range - pH, Calcium Hardness, Alkalinity, Chloride, Phosphate, Free Chlorine, Silica, Iron and Zinc.

***INDION*® Boiler Water Analysis Kit:** It contains all important tests in a universally accepted range - pH, Total Hardness, Calcium Hardness, Phosphate, Chloride, DEHA, Hydrazine, Sulphite, Iron and Silica.

***INDION*® Cation Conductivity Column**: The INDION CCC (Cation Conductivity Column) features a design to achieve optimum resin efficiency with superior performance at typical flow rates required by conductivity analysers. It is designed for water flow from top to bottom. Colour change of the resin will progress from top to bottom with use. When the colour changes completely, it is time to change the resin.

NEW ***INDION*® Water Potability Test Kit:** It measures the eight most important chemical parameters of drinking water within the range specified by the Bureau of Indian Standards - pH, Total Hardness, Alkalinity, Chloride, Fluoride, Chlorine, Iron and Nitrate.

NEW ***INDION*® RO water Test Kit:** It contains all important tests conducted in RO Feed water and reject - pH, Total hardness, Calcium hardness, Chloride, Silica, Sulphite, FRC and Iron.

NEW ***INDION*® Product Residual test kit**: It contains all important tests whose residual need to be maintained in Cooling water and boiler water - Zinc, Sulphite, Tannin, Ortho phosphate, FRC and DEHA.

NEW ***INDION*® E-coli test kit:** Water borne diseases like typhoid, cholera and diarrhoea are rampant due to faecal contamination of drinking water. This test kit helps to indicate the formation of sulphide and hence faecal contamination.

MODELS	TEST	METHOD	APPLICATION
pH 4.5 - 9.0 BX	**pH -** pH of water indicates the intensity of acidic/basic nature. Low pH is corrosive to the system whereas high pH causes scaling.	Colorimetric	RW, BW, CW
Hardness - 25 BX Hardness -100 BX Hardness - 500 BX Hardness -1000 BX	**Total hardness -** Calcium and magnesium can precipitate and cause scaling in boilers, cooling towers and heat exchangers in cooling systems.	Titrimetric	RO, Softener, Bore well, RW, BW, CW
Calcium - 25 BX Calcium -100 BX Calcium - 500 BX Calcium - 1000 BX	**Calcium hardness -** Calcium can precipitate and cause scaling in boilers, cooling towers and heat exchangers in cooling systems.	Titrimetric	RO, Softener, Bore well, RW, BW, CW
Akalinity -25 BX Alkalinity -100 BX Alkalinity -500 BX Alkalinity -1000 BX	**Total alkalinity -** Alkalinity measurement is important to maintain pH of boilers and cooling towers. It is primarily a function of bicarbonates, carbonates and hydroxides.	Titrimetric	RO, Softener, Bore well, RW, BW, CW
Chloride - 25 BX Chloride - 100 BX Chloride - 2000 BX	**Chloride -** Excess chloride in water may lead to corrosion in boilers, cooling towers and heat exchangers in cooling systems. It also indicates the cycle of concentration in boilers and cooling towers under certain conditions.	Titrimetric	RO, Softener, Bore well, RW, BW, CW
Fluoride - 2.5 BX	**Fluoride -** Its permissible limit in drinking water is 1 mg/l. Above this level it causes dental and skeletal fluorosis.	Colorimetric	PW
Sulphite - 100 BX	**Sulphite -** Boiler feed water is treated with sulphite to control dissolved oxygen. Excess sulphite may lead to corrosion.	Titrimetric	BW
Silica - 200 BX Silica - 80 BX Silica - 3 BX Silica - 0.25 BX	**Silica - high range** **Silica - medium range** **Silica - low range** **Silica - ultra low range** } Silica in water is undesirable for a number of industrial usages as it forms silicate scales, which are difficult to remove.	Colorimetric Colorimetric Colorimetric Colorimetric	RW, CW RW, CW BW DM, MB
Iron - 3.5 BX	**Iron -** Iron present in source water or from corrosion of steel can oxidise to form rust deposits within boilers, cooling towers and heat exchangers.	Colorimetric	RW, BW, CW
FRC - 2 BX FRC - 4 BX	**Free residual chlorine -** For effective disinfection, a residual level of chlorine is required.	Titrimetric	CW
Hypochlorite - 12.5 BX	**Hypochlorite -** Hypochlorites are highly dispersible disinfectants used in cooling towers which need regular monitoring.	Titrimetric	CW
ClO_2 - 2 BX	**Chlorine dioxide -** Chlorine Dioxide is used as disinfectant, deodorant and oxidising agent in various operations. It is an important parameter to be monitored properly.	Titrimetric	CW
Bromine - 2 BX	**Bromine -** Bromine is a disinfectant for alkaline water, but it is corrosive so proper monitoring is essential.	Titrimetric	CW
Ortho phosphate - 10 BX Ortho phosphate - 50 BX	**Ortho Phosphates -** Ortho Phosphates are used for controlling corrosion in cooling system and pH elevation and softening in boiler water. Ortho phosphate residual is to be maintained in water.	Colorimetric	BW, CW
Phosphonate- 5 BX	**Phosphonate -** Phosphonate acts as an antiscalant and corrosion inhibitor in various application, therefore its residuals are important to ensure proper corrosion and scale control.	Titrimetric	CW, BW
Zinc - 5 BX	**Zinc -** Zinc is an important corrosion inhibitor in CW systems, therefore its residuals are important to ensure proper corrosion protection.	Titrimetric	CW
Nitrite - 2500 BX Nitrite - 250 BX	**Nitrite - high range** **Nitrite - low range** } Nitrite is used in closed cooling systems for corrosion protection.	Titrimetric Titrimetric	CW CW
Nitrate - 100 BX	**Nitrate -** Nitrates are used as corrosion inhibitors in closed cooling water systems where its concentration is monitored on a regular basis.	Colorimetric	CW
DEHA - 0.35 BX	**DEHA -** DEHA is a volatile passivating oxygen scavenger. To ensure proper removal of oxygen, precise residual monitoring is essential.	Colorimetric	BW
Hydrazine - 2 BX	**Hydrazine -** Hydrazine is a volatile oxygen scavenger for boilers. Its minimum concentration needs to be maintained to ensure complete oxygen removal.	Colorimetric	BW
INDION 155	**INDION 155 -** This test kit helps to check the residual to ensure complete oxygen removal from the system.	Titrimetric	BW

PW - Potable Water **BW -** Boiler Water **CW -** Cooling Water **DM -** Demineralisation **MB -** Mixed Bed **RW -** Raw Water