

ANYTHING & EVERYTHING IN WATER & FUEL TREATMENT



WATER TREATMENT PLANTS

(Water Softner, D. M. Plant, R.O. Plant, Pressure Sand Filter, Activated Carbon Filter, Mixed Bed Plant.)



WATER TREATMENT CHEMICALS

(Boiler Water Side Chemical, Boiler Fire Side Chemical, Fuel Additive, Descaling Cleaning Chemical, Cooling & Chlling Water Tratment Chemical, RO Chemical, Resin Cleaning Chemical)



ION EXCHANGE RESINS

(Softner, Resin, Cation Resin, Anion Resin, Mixed Bed Resin, Special CNC. / EPDM wire cut M/C resin)



RO MEMBRANES

"GE Osmonic Brand" 4" & 8"

- ◆ ALL PRODUCTS EX-STOCK AVAILABLE
- ◆ SUPPLYING TO ALL OEMS.

WATER TREATMENT PLANTS

WATER SOFTNER

Raw water is termed "hard" when it contains dissolved salts of calcium and magnesium. Temporary, alkaline or carbonate hardness is caused by dissolved bicarbonates or carbonates of calcium and magnesium, Permanent, non-alkaline or non-carbonate hardness is caused by dissolved chlorides, sulphates or nitrates of calcium and magnesium, Softner removes hardness in water.



D.M. PLANT

The following gives the generalised description of the processes for removal of dissolved solids by the ion exchange process. The ion exchange process involves two stages of demineralisation. The first stage is the removal of cations from water by the cation exchange process. The second stage is the removal of anions from water by the anion exchange process.

R.O. PLANT

The Numatic Engineers Pvt. Ltd. desalination unit uses the reverse osmosis process to remove dissolved solids from brackish or saline water. The process is continuous and requires no regeneration chemicals. The unit is factory tested and easy to install and operate. Treated water quality is continuously monitored by a Total Dissolved Salt indicator.



PRESSURE SAND FILTER

We offer durable pressure sand filters that are used for the removal of suspended solids & turbidity. The pressure sand filter is extremely robust method of removing suspended solids from water. The filtration medium comprises of multiple layer of sand having different sizes & specific gravity. As per the needs of our customers, we can offer sand filters in various sizes and material apart from hand operated or fully automatically.

ACTIVATED CARBON FILTERS

Activated Carbon Filters are used for removing free chlorine, phenol, taste and odor as well as reduction COD/BOD. These specially designed filters are made from FRP closed vessel fitted with multi port valves and are operated under pressure. The water is passed through the under bed media & granular activated carbon layer. These filters have a back flushing arrangement, which easily flushes away the deposited impurity at carbon granules. Activated Carbon Filter, for removal of free chlorine, phenol, taste and odor as well as reduction COD/BOD.



MIX BED PLANT

Mixed bed demineralizer plant embodies a single column unit in which strong cation & strong anion resins are intimately mixed together. Water passing through the column comes repeatedly in contact with these resins and is thus in effect subjected almost infinite number of demineralizing stages. Demineral water of extreme purity is produced - Purity that can not be produced by any other commercial method. Mixed bed resins are regenerated with acid and alkali but the ion exchange resin must be separated before this can be done.

WATER TREATMENT CHEMICALS

R.O. CHEMICAL / REVERSE OSMOSIS ADDITIVE

RO system if untreated cause several problems like inorganic, organic, colloidal and bio fouling resulting in reduced permeate recovery, increased pressure differential & permeate conductivity, frequent membrane cleaning ultimately premature membrane failure. Scaling elements like carbonates, sulphates, silicates, iron, fluoride and aluminium reduces the permeability of RO system and hinders the products water flow. Additives are highly effective threshold agent inhibit precipitation of these salts by increasing their solubility limit. It is also acts as iron sequester thereby iron fouling

Aquablend 921 - RO Cleaning Chemical
Aquablend 902 - Silica Antiscalant for RO



BOILER WATERSIDE CHEMICALS

The treatment of water for steam generation is one of the most significant branches of water chemistry. Industries use steam, either in the process or generating power. Generation of steam is energy intensive and costly, therefore efficient production and utilization of steam is a prerequisite to keep over all cost of production down. Strategy for the boiler water treatment should be to use the boiler that operates with the highest efficiency for the longest possible time. Boiler water should be treated properly to prevent pitting/corrosion, scaling and carryover even hot blast of tubes. Using some of the specific result oriented additives can prevent these problems to facilitate fast, safe & reliable steam generation.

Aquablend 321 - Scale & Corrosion
Aquablend 310 - Oxygen Scavenger
Aquablend 321 - Scale & Corrosion
Aquablend 322-S Boilers feed wates
Aquablend XL Online Boiler Descalant



DESCALING / CLEANING CHEMICALS

Descaling/Chemical cleaning is more effective as the removal of inorganic foulants from process lines, equipments, surface etc. Cleaning should be combination of three elements i.e. Solvents (acid, alkali, surfactant), Fluid velocity (stirring, spraying, agitation, air rumbing and steam addition etc.) Heat (hot water or hot surface). Cleaning is dividend into two categories : pre operational cleaning and routine maintenance cleaning.



BOILERS FIRE SIDE CHEMICALS

NEPL fuel additives/fireside is designed keeping in mind typical fuel oil related problems and overall improvement in fuel economy. Use of NEPL fuel additives insures reduction in oil sludge, prevention of corrosion in oil storage tank, pipelines and an objective of cleaner environment. NEPL fuel additives also help to improve overall combustion improvement by reduction in soot and clinker formation as well as stack temperature. Fireside chemicals contain silicate based combustion catalyst, slag modifiers, corrosion inhibitors and dust suppressants that help overall combustion resulting in better system performance

Aquablend AD - Fuel Additives
Aquablend X Stick - To burn carbon
Aquablend X Bottle - To burn carbon



COOLING WATER & CHILLING PLANT CHEMICALS

The Primary objective of cooling water treatment is to facilitate easy heat rejection and minimize water consumption. Cooling involves the transfer of heat (Btu's Kcal/Kg) from one substance to another. The substance that loses heat is said to be cooled, and the one that receives the heat is referred to as the coolant. Cooling water for the industries if untreated cause several problem i.e. corrosion, scaling, fouling & microbiological growth in cooling towers, condensers, coolers and other parts, resulting in production loss, equipments failure and breakdowns.

Aquablend QAT - Biocide
Aquablend PNT - Biocide
Aquablend CBT - Biocide
Aquablend D4 - Scale
Aquablend 292 - Chilling Plant



RESIN CLEANING CHEMICALS

Aquablend-Rca is an online anion resin cleaning compound for prevention of organic fouling & biological fouling of resin. It is a blend of several surfactants & Biological preventive agent. **PRODUCT DETAILS** Aquablend-RCA reduces the prograssice fouling of anion resin due to oil & suspended solids. It also prevent fouling of resin due to microbiological growth thus keeping the resin bead surface clean. Regular use of Aquablend-RCA reduces regeneration frequency, service cycle & extends of the resin.





NUMATIK ENGINEERS PVT. LTD.

RO MEMBRANES -- GE OSMONIC

Thermax Ltd. leader in water treatment and water treatment chemicals presents a gamul of Brackish Water (BW) Reverse Osmosis (RO) membranes.

Thermax offers a complete range of 4" and 8" brackish water membranes having high rejection qualities, normal pressure operation along with specific low pressure membranes with slightly lower rejection. Thermax provides you the quality products with its well-knit distribution system to help you achieve operational excellence.



Thermax Description	GE Model No.	Nominal Active Surface Area ft ² (m ²)	Permeate Flow Rate gpd (m ³ /d)	Applied feed Pressure bar (psig)	Average Salt Rejection NaCl (%)	Single Element Membrane Dia mm (inches)	Single Element Permeate Tube Dia mm (inches)	Feed Spacer Thickness (mil)
TCDM 80	AG 8040 F	365 (33.9)	10,000 (37.9)	15.5 (225)	99.5	200 (7.88)	29 (1.125)	31
TCDM 81	AG 8040 F 400	400 (37.2)	11,000 (41.6)	15.5 (225)	99.5	200 (7.88)	29 (1.125)	27
TCDM 40	AG 4040 FM	85 (7.9)	2200 (8.3)	15.5 (225)	99.5	99 (3.88)	19 (0.75)	27
TCDM 41	AK 4040 FM	85 (7.9)	2200 (8.3)	7.93 (115)	99	99 (3.88)	19 (0.75)	27

ION EXCHANGE RESINS

We offer a wide range of Ion Exchange Resin, which is extensively used for different separation, purification and decontamination processes. Our range of Ion Exchange Resin is useful for cation & anion resins for softening, DM & mix bed resin for producing ultra pure water. These are of quality standard and are available at very competitive price. As the name implies ion exchange is a process in which undesirable ions are exchanged for more desirable ions. This process removes all the impurities and hardness present in the water and makes it soft and skin friendly.



" TULSION " THERMAX Make Resins Are Available Ex Stock Cation, Anion , Mix Bed & Non Regenerative (Super Charged) Resins For Water Softening ,Demineralising & Production Of Ultra Pure Water Are Available Ex Stock.

CNC WIRE CUT MACHINE RESIN

We have special MB Resin & Hyperactive Resin For CNC wire cut machine .

Std. Pkg.: 25 Ltrs.

- ◆ EX-STOCK (Any time)
- ◆ SUPPLYING TO ALL OEMS.
- ◆ GODOWNS AT DAHISAR & BHIWANDI



NUMATIK ENGINEERS PVT. LTD. ENGINEERS & CONSULTANT

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