AquaMax* IEC2

ion exchange resin cleaner

Water Technologies & Solutions
fact sheet

- Cleans fouled resin
- Improves feedwater quality
- Extends resin life - reduces cost of resin replacement
- Increases resin throughput - saves regenerant
- Easy to apply liquid

description and use

AquaMax* IEC2 is a blend of an acid chelant, an organic phosphonate and a corrosion inhibitor specially formulated to assist in the restoration of ion exchange resins.

AquaMax IEC2 is designed to solubilise and disperses many metallic and inorganic foulants, including iron, copper, aluminium and hardness salts.

typical applications

Ion exchange resins are subject to fouling by inorganic and organic compounds, which are present to some degree in all waters. Some foulants can be removed by special regeneration procedures, but others require treatment to restore throughput and effluent quality.

Metals, which cause fouling of resin beads, also catalyse decrosslinking of resin, physically degrading it. Iron and copper, which are present in both raw water and condensate streams act in this manner unless successfully removed. Aluminium, present due to its use as a clarification aid, often brings an organic complex along, so that the resin is fouled internally and blinded externally.

In the situations described above the resin throughput and water quality will suffer increasing system operating costs and decreasing downstream system reliability.

When diluted with the regenerant (brine) AquaMax IEC2 can be used to control contamination of the resin and maintain softener and condensate polisher performance at peak efficiency. The frequency of AquaMax IEC2 application depends on the severity of the contamination problem.

For a severely fouled resin bed, out of service restoration may be required to regain optimum resin efficiency. Air lancing during the application provides excellent solvent contact.

AquaMax IEC2 is also effective in dissolving most precipitated foulants in strong and weak acid cation units, base anion units and infiltration media and equipment.

treatment and feeding requirements

Feed point: Mix with the brine used for regeneration in the brine tank, or add to the resin vessel through the open man way.

Feed rate:
In service - depending on severity, 4 - 8 liter per m^3 of resin.
Out of service - depending on severity, 40 - 80 liter per m^3 of resin.

Dilution: Dilute as necessary in the brine tank or add neat to the resin vessel. The water level must be even with the top of the resin bed.

Equipment: A stainless steel transfer pump should be used to inject AquaMax IEC2 into the brine tank or resin vessel. An air lance should be used to agitate the bed during AquaMax IEC2 out of service cleaning.

general properties

The physical properties of AquaMax IEC2 are shown on the Safety Data Sheet, a copy of which is available on request.

packaging information

AquaMax IEC2 is a liquid blend and is available in a wide variety of customised containers and delivery methods. Contact your local SUEZ representative for details.

safety precautions

A Safety Data Sheet containing detailed information about this product is available on request.

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