

axion SH20

Ion Exchange Resins

Efficient Softening & Demineralisation



IS:7330-1988

Description

Resins used during the processes of Water Softening and Demineralisation for removal of calcium and magnesium ions determine the quality of the treated water. The Axion SH20 Series are unique strongly acidic cation, sulphonated polystyrene resins. The ion exchange resins are used for domestic and industrial water softening (in Na⁺ form) as well as demineralisation and other chemical process (in H⁺ form).

Features

- ▶ Outstanding chemical, thermal and physical stability
- ▶ Higher operating capacity
- ▶ High exchange capacity
- ▶ Good ion exchange kinetics
- ▶ Available at competitive price

Applications

The Axion SH20 range of resins is applicable for Boiler Feed Water, Cooling Water Treatment, Process Water, Hot Water Systems and more.

Industry Focus

- ▶ Textiles
- ▶ Food & Beverages
- ▶ Pharmaceuticals
- ▶ Chemicals
- ▶ Electronics
- ▶ Automobiles
- ▶ Hospitality

Specifications

Properties

Physical form:	Amber beads
Ionic form (as supplied):	Na ⁺ and H ⁺
Total exchange capacity:	2 eq / L (Na ⁺ form)
Particle size:	0.3 - 1.2mm
Operating pH range:	0-14
Chemical stability:	Insoluble in dilute acids or bases and common solvents

Available Grades

Name	Ionic Form	Particle Size(mm)*	Applications
SH20	Na ⁺	0.3 - 1.2	Softening and standard demineralisation process with co-flow regeneration
SH20 A	Na ⁺	0.4 - 1.2	Special grade for softening process
SH20 D	H ⁺	0.6 - 1.2	For Duobed (stratified bed) operation
SH20 L	Na ⁺	0.5 - 1.2	For use at high flow rates with minimum pressure loss

* 90% of the beads within the specified range

Caution

Acidic and basic regenerating solutions are corrosive in nature, thus eye and skin contact should be prevented. Nitric acid and other strong oxidizing agents can cause explosive type reactions when mixed with Ion Exchange Resins. Proper design of process equipment to prevent rapid build-up of pressure is necessary if use of an oxidizing agent such as nitric acid is contemplated.

A Material Safety Data Sheet is available for each product. To obtain a copy contact your Aventura representative.

Marketed by: **AVENTURA COMPONENTS PVT. LTD.**

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