POLYMEX™
Resins

Strong Base Anion Exchange Resin (SBA-TYPE II Industry Grade)

SBA-TYPE II is a gel-type strong base anion exchange resin based on polystyrene matrix with a quaternary ammonium functional group. SBA-TYPE II gives high-throughput and consistent quality. SBA-TYPE II resins in combination with SAC-C25 DM resins, gives excellent performance in mixed beds.

SBA-TYPE II is a high-capacity resin which achieves the lowest possible silica under varied water conditions. The resin is supplied in transparent, moist bead form with high bead strength. The resin is suitable for demineralisation system incorporating co-current and counter-current operations.

Properties

Matrix	Cross linked polystyrene
Functional Group	Quaternary Ammonium
Ionic Form	Cl- Chloride
Physical Form	Hard moist beads
Particle size (mm)	0.315-1.25
Moisture content %	42-48
Total Exchange Capacity (Min) eq/ltr	≥ 1.1
Bulk density or shipping weight gms/ltr	670-730
Operating pH range	0-14
Solubility in common solvents	Insoluble
Operating Temperature °C (max)	80
Volume change% (max): Cl- to OH-	25

SBA-TYPE II (OH form) is usually used for a DM plant with SAC-C25 DM (H form) cation resin for Co-flow regeneration system, the specifications difference with Cl form of SBA-TYPE II are

Suggested Operating Conditions

Bed Depth	Meter	1.0-3.0
Regenerant Concentration	%	4-5 NaOH
Regenerant Flow Rate	Meter/Hour	4-6
Regenerant Contact Time	Minutes	30-60
Regeneration Level 100%	Kgs/m^3 of resins	40-80 NaOH
Rinse Flow Rate	Meter/Hour	15-25
Rinse Time	Minutes	25
Running Flow Rate	Meter/Hour	15-25



SBA-TYPE II (OH form)

Ionic Form	OH-
Bulk density or shipping weight gms/ltr	660-710
Moisture content %	52-60
Total Exchange Capacity (Min) eq/ltr	1.1
Conversion to Hydroxy Form %	95

APPLICATIONS: SBA-TYPE II is recommended in the two bed system of demineralisation system. The resin has a lower silica and carbonic acid leakage, hence gives higher silica removal capacity in demineralization units.
SBA-TYPE II is also used as a mixed bed resin along with SAC-C25 DM as a polishing unit to achieve the lowest residual silica in treated water, and high-purity of water is obtained. The resin is also used in absorption, fractionalisation process of weak acids, biochemicals, and pharmaceutical intermediates.

CAUTION: Strong oxidizing agents like nitric acid can cause explosive type reaction, when mixed with Ion Exchange resins. Knowledgeable personnel should be consulted in the handling of this material.

NOTE: Ion Exchange Resins are sold on a volume basis, but are packed and shipped by weight. The shipping weight for each resin is fixed & does not take into consideration the variations in density and moisture content allowed within the product specifications. Therefore although the weight of the material is constant, there may be slight variations in volume, reflecting batch to batch variation of density and moisture content.

Packaging

Super Sack	1000L
PP/PE Bag	25L
PP/PE Bag	25Kgs

STORAGE CONDITIONS: The resin supplied in drums or bags should be stored in cool shed (warehouse) away from direct sunlight and should be periodically damped with clean water.