PRODUCT DATA SHEET[1)]

TREVER®|LITE MB200/BLUE

for mixed bed demineralisation

DESCRIPTION

TREVERLITE MB200/Blue is dyed and was developed for the complete demineralisation of water. It is loaded with an indicator showing its saturation through a colour change from blue-green to brown-yellow. It is a ready to use premix of a highly regenerated strong acid cation exchanger in H^+ form and a highly regenerated strong base anion exchanger Type 1 in OH^- form. It is ionically balanced having a volume ratio of 1:1.5.

TREVERLITE MB200/Blue can be used in small cartridges as well as in bigger columns to produce high quality demineralised water. It is well cleaned allowing a fast rinse prior to the service cycle. It cannot be separated and regenerated after saturation. TREVERLITE MB200/Blue is primarily used where a conductivity meter cannot be installed or the application is too small to allow additional equipment.

Typical applications are the demineralisation of water for steam irons, in laboratories, or for battery fill-up.

TYPICAL PROPERTIES AND CHARACTERISTICS

Physical form	Spherical beads
Ionic form as shipped	H^+ and OH^-
Structure	Crosslinked polystyrene
Functional group	Sulphonic acid and quaternary amine
Total exchange capacity	>1.8 eq/L for cation resin (H^+ form) >1.0 eq/L for anion resin (OH^- form)
Moisture holding capacity	57-67%
Shipping weight	700-770 g/L
Specific gravity	1.05-1.25
Particle size	
Particle size range	(0.315 to 1.2 mm) > 95%
Fines content	< 0.315 mm: 1% max.
Coarse beads	> 1.2 mm: 5% max.
Conductivity	< 1 µS/cm
pH	neutral

TYPICAL APPLICATIONS

- Once through working mixed bed in cartridges for steam ironing, battery fill up, laboratories

SUGGESTED OPERATING CONDITIONS (for water demineralisation)

Max. operating temperature	60°C
pH range	0-14
Bed depth for small column operation	> 400 mm
Bed depth for cartridge operation	> 70 mm

The operating capacity of TREVERLITE MB200/Blue can be estimated by the following formula:

$$BV\ ^{2)} = \frac{400}{TDS\ ^{3)}\ (meq/L)} \quad \text{or} \quad gal/ft^3 = \frac{150{,}000}{TDS\ (as\ ppm\ CaCO_3)}$$

Operating conditions refer to the use of the product under normal operating conditions. They are based on experience in industrial applications. However, additional data are needed to calculate the resin volumes for larger plants. For more information please contact our technical experts.

Governmental regulations vary from country to country. Please seek advice from your local CHEMRA representative in order to determine the best resin choice and operating conditions.

[1] Preliminary
[2] BV/h (Bed Volume) = 1 unit of solution per 1 unit or resin per hour
[3] Total Dissolved Solids

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