# HIGH PURITY MIXED BED DEIONIZATION RESIN

Tulsion MB-108P is a mixture of strongly acidic cation exchange resin . These resins combine high capacity with excellent physical properties. These resins can be used for regenerative or non regenerative (cartridge) systems. Tulsion MB-108P is manufactured using special processing procedureto produce material of ultimate purity meeting the exacting demands of various industries. This resin is recommended in any regenerable or non-regenerable mixed bed application where reliable production of the highest quality water is required and where the supplied resinmust have an absolute minimum of ionic and non-ionic contamination. Standard MB-108P is supplied as 1:1 chemical equivalent mixture of cation and anion. Other ratios are available upon request.

TULSION ®

# MB-108P

## TYPICAL CHARACTERSTICS

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|---|---|
| Type : | Strong Acid cation/ Strong Base anion resin Mixture |
| Matrix Structure : | Cross Linked polystyrene divinylbenzene |
| Functional group : | Sulphonic Acid/ Quaternary Ammonium Type-I |
| Physical form : | Moist spherical beads |
| Ionic form as shipped : | $H^+$/ $OH^-$ |
| Particle Size : | 0.3 to 1.2 mm |
| Screen Size U.S.S mesh : | 16-50 |
| Fines Content : | Less than 0.5% passing through 50 U.S Mesh |
| Total Exchange capacity: | 1.8 meq/ml in $H^+$ form, minimum 99% in $H^+$ form<br>1.0 meq/ml in $OH^-$ form, minimum 90% in $OH^-$ form and 3% in $Cl^-$ form |
| Operating pH range : | 0-14 |
| Temperature stability : | 175°F (80°C) |
| Backwash Settled density : | 45-47 lbs/$ft^3$ ( 710 – 750 g/l) |
| Bead Strength (Chattilon test) : | Average not less than 500 g/bead (Cation)<br>Average not less than 250 g/bead (Anion) |
| Impurities: | Fe not more than 200 ppm<br>Cu not more than 100 ppm |
| Heavy Organic Leachables : | Not traceable |
| Solubility : | Insoluble in all common solvents |