

TULSION® A-62 MP N

Nitrate removal resin

Tulsion® A-62 MP N is a premium-grade macroporous strong base anion exchange resin with excellent physical and chemical stability. It is highly resistant to organic fouling and can handle streams with large amounts of organic and coloring matter.

Tulsion® A-62 MP N is NSF-certified resin and specially processed during manufacturing to have low VOC levels in accordance with NSF standards. Our advanced anion exchange resin boasts superior nitrate selectivity, allowing it to effectively remove nitrates from water sources that are high in sulfates and chlorides.

Regulatory certificates and approvals

- ▶ NSF/ANSI-61 standards
- ▶ Halal certified
- ▶ Kosher certified



Applications

- ▶ **Nitrate removal**
- ▶ Potable water
- ▶ Domestic waste water

Typical characteristics of Tulsion® A-62 MP N

| | |
|--------------------------------|--|
| Type | Macroporous strong base anion exchange resin |
| Appearance | Opaque off-white beads |
| Matrix structure | Cross-linked polystyrene |
| Functional group | Quaternary ammonium |
| Physical form | Moist spherical beads |
| Ionic form | Chloride |
| Screen size USS (Wet) | 16-50 |
| Particle size (95%Min.) | 0.3 to 1.2 mm |
| > 1.2 mm (Max.) | 2% |
| < 0.3 mm (Max.) | 1% |
| Uniformity coefficient (Max.) | 1.6 |
| Total exchange capacity (Min.) | 1.0 meq/ml (21.9 Kgr. as CaCO ₃ /cft) |
| Moisture content | 49 to 55 % |
| Reversible swelling (Approx.) | Cl ⁻ to OH ⁻ : 21% |
| pH range | 0 to 14 |
| Solubility | Insoluble in all common solvents |
| Shipping density (Approx.) | 690 gm/l (43.1 lbs./cft) |
| Temperature stability (Max.) | 212°F/100°C |

Influent limitation

| | |
|-----------------------|-------------------|
| Free chlorine | Not traceable |
| Turbidity | Less than 2 NTU |
| Iron and heavy metals | Less than 0.1 ppm |

Suggested operating conditions for Tulsion® A-62 MP N

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|---|--|
| Maximum operating temperature | 176 °F (80 °C) |
| Resin bed depth (min) | 39" (1000 mm) |
| Service flow | 0.25 to 2.5 gpm/cft (2 to 20 BV/hr) |
| Backwash expansion space (Min.) | 40 to 70% |
| Backwash flow rate for 40-70% expansion at 77°F (@25°C) | 1.63 to 4.1 gpm/ft ² (5 to 10 m ³ /hr/m ²) |
| Regenerant | NaCl |
| Regeneration level (100% basis) | 100 to 200 g NaCl/L (6.3 to 12.5 lbs./cft) |
| Regenerant concentration | 8 -15% NaCl |
| Regeneration time | 30 to 60 Minutes |
| Rinse flow rate : Slow | At regeneration flow rate |
| : Fast | At service flow rate |
| Rinse volume | 15 to 52.4 gal/cft (2 to 7 m ³ /m ³) |

Testing

The sampling and testing of ion exchange resins is done as per standard testing procedures, namely ASTM-D2187-17 and IS-7330, 1998.

ISO certificates

ISO 14001: 2015, ISO 45001: 2018, & ISO 9001:2015

Packing

| | | | |
|-----------------|----------|-----------------|--------|
| Super sack | 1000 lit | Super sack | 42 cft |
| MS drums | 180 lit | Super sack | 35 cft |
| HDPE sack | 50 lit | Fiber drums | 7 cft |
| HDPE lined bags | 25 lit | HDPE lined bags | 1 cft |

For handling, safety and storage requirements, please refer to the individual material safety data sheets available at our offices.

The data included herein are based on test information obtained by Thermax Limited. These data are believed to be reliable but do not imply any warranty or performance guarantee. Tolerances for characteristics are as per BIS/ASTM standards. We recommend that the user should determine the performance of the product by testing on his own processing equipment.

In view of our constant endeavor to improve the quality of our products, we reserve the right to change their specifications without prior notice.

Registered Office

Thermax Limited
D-13, MIDC Industrial Area, R D Aga Road,
Chinchwad, Pune 411019, India

Thermax Limited


Environment House,
Chemical Division, 90-92, BG Block,
MIDC, Bhosari, Pune-411026, India.
Tel: +9120 6715 6000
Email: enquiry@thermaxglobal.com

Thermax Inc.

16200 Park Row, Suite 190,
Houston, Texas 77084, USA.
Tel: +1281-600-1331-5
Email: customerservice@thermax-usa.com

 thermaxglobal

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