ION EXCHANGE
Refreshing the Planet

# INDION® 525 Na

## Description

INDION 525 Na is a high-capacity strongly acidic cation exchanger containing sulphonic acid groups. It is based on crosslinked polystyrene with a gel structure and has a higher degree of cross-linkage compared to INDION 225 Na. The resin is extremely robust and has excellent physical and chemical characteristics. It is supplied in moist conditions in sodium form.

## Applications

INDION 525 Na with its larger bead size, results in lower pressure loss, making it the most suitable resin for high flow rate softener units. INDION 525 Na being sturdy resin, makes it suitable for severe application conditions such as high temp, high velocity, etc.

| Characteristics | |
|---|---|
| Appearance | Translucent golden yellow to brown beads |
| Matrix | Styrene divinylbenzene copolymer |
| Functional Group | Sulphonic acid |
| Ionic form as supplied | Sodium |
| Total exchange capacity | 2.15 meq/ml, minimum |
| Moisture holding capacity | 38 - 44% |
| Shipping weight* | 820 - 860 kg/$m^3$ |
| Particle size range | 0.3 to 1.2 mm |
| > 1.2 mm | 5.0%, maximum |
| < 0.3 mm | 1.0%, maximum |
| Uniformity co-efficient | 1.7, maximum |
| Effective size | 0.45 to 0.60 mm |
| Volume change | Na to H, 6-8% |
| Osmotic stability | Excellent |
| Maximum operating temperature | 130$^0$ C |
| Operating pH range | 0 to 14 |
| Resistance to reducing agents | Good |
| Resistance to oxidizing agents | Generally good, chlorine should be absent |
| *Weight of resin, as supplied, occupying 1$m^3$ in a unit after backwashing and draining. | |

# Packing

| | | |
|---|---|---|
| HDPE Lined bags | : | 25/50 lts |
| LDPE bags | : | 1 cft/25 lts |
| Super sack | : | 1000 lts |
| Super sack | : | 35/40/42 cft |
| MS/HDPE drums with liner bags | : | 180/200 lts |
| Fiber drums with liner bags | : | 7 cft |

# Storage

Ion exchange resins require proper care at all times. The resin must never be allowed to become dry. Regularly open the plastic bags and check the condition of the resin when in storage. If not moist, add enough clean demineralised water and keep it in completely moist condition.

# Safety

Acid and alkali solutions used for regeneration are corrosive and should be handled in a manner that will prevent eye and skin contact. If any oxidising agents are used, necessary safety precautions should be observed to avoid accidents and damage to the resin.

INDION range of Ion Exchange resins are produced in a state-of-the-art ISO 9001 and ISO 14001 certified manufacturing facilities at Ankleshwar, in the state of Gujarat in India.



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