ION EXCHANGE
Refreshing the Planet

INDION® GS 300

Description

INDION GS 300 is a strong base Type 1 anion exchange resin, containing quaternary ammonium groups. It is based on crosslinked polystyrene and has a gel structure with high mechanical strength.

Applications

INDION GS 300 is effective in removing weak acids like carbonic and silicic acid along with strong acids. It is recommended for use in two-stage/multiple stage or mixed bed deionising units for producing high quality demineralised water with lowest possible residual silica. Being a high strength gel resin, it is recommended for use in condensate polishing. It is also recommended for specialty non-water applications such as caprolactum purification.

INDION GS 300 is used in combination with strong acid cation resins such as INDION 225 or INDION 525.

Characteristics	
Appearance	Translucent pale yellow beads
Matrix	Styrene divinylbenzene copolymer
Functional Group	Benzyl trimethyl amine
Ionic form as supplied	Chloride
Total exchange capacity	1.3 meq/ml, minimum
Moisture holding capacity	48 - 58%
Shipping weight*	640 - 700 kg/m^3
Bead strength	300 g/bead, average
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
Maximum operating temperature	60^0 C in OH form, 80^0 C in Cl form
Operating pH range	0 to 14
Volume change	Cl to OH, 25 - 30%, approximately
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. Always keep the resin drum in the shade. Recommended storage temperature is between 20°C and 40° C

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.

ION EXCHANGE (INDIA) LTD.

Corporate Office
Ion House, Dr. E. Moses Road, Mahalaxmi,
Mumbai - 400011 | Tel: +91 22 6231 2000
E-mail: ieil@ionexchange.co.in

International Division
R-14, T.T.C MIDC, Thane - Belapur Road, Rabale,
Navi Mumbai - 400 701 | Tel: +91 22 6857 2400
E-mail: export.sales@ionexchange.co.in

Regional and Branch Offices
Bengaluru | Bhubaneswar | Chandigarh | Chennai
Delhi | Hyderabad | Kolkata | Lucknow | Vadodara
Vashi | Visakhapatnam

Overseas Offices
Bangladesh | Canada | Indonesia | Kenya
Malaysia | Oman | Portugal | Saudi Arabia | Singapore
South Africa | Sri Lanka | Tanzania | Thailand | UAE | USA

Manufacturing Units
India - Ankleshwar | Hosur | Patancheru | Rabale | Verna | Wada
Overseas - Bangladesh | Indonesia | Saudi Arabia | UAE
All India Service and Dealer Network

www.ionexchangeglobal.com | www.ionresins.com

R03_0323