

# INDION® 740

## Description

INDION 740 resin is a macroporous strongly acidic cation exchanger for speciality applications in aqueous and non-aqueous systems. The resin is physico-chemically synthesized with utmost precautions in starch to give better resistance towards stress and strain generally encountered in non-water applications.

INDION 740 is supplied in wet form as black spherical beads. INDION 740 is recommended mainly in

chemical processing like deashing, demineralisation of gelatine, sorbitol, high solid containing syrups, protein / hydrolysates and in hydrometallurgical applications. High resistance to organic fouling gives INDION 740 a distinctly superior performance in processing of natural base products, while its excellent physical and chemical characteristics and oxidative stability make it suitable for heavy metal removal systems.

### Characteristics

Appearance	:	Greyish beads
Matrix	:	Styrene divinylbenzene copolymer
Functional Group	:	Sulphonic acid
Ionic form as supplied	:	Hydrogen
Total exchange capacity	:	1.3 meq/ml, minimum (in Sodium form)
Moisture holding capacity	:	62 - 66 % (H <sup>+</sup> form)
Shipping weight *	:	710 kg/m <sup>3</sup> , approximately
Particle size range	:	0.3 to 1.2 mm
> 1.2 mm	:	5.0%, maximum
< 0.355 mm	:	1.0%, maximum
Uniformity co-efficient	:	1.7, maximum
Effective size	:	0.45 to 0.6 mm
Maximum operating temperature	:	120° C - 150° 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<sup>3</sup> 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 cft
MS drums	180 lts	Fiber drums	7 cft
with liner bags		with liner bags	

## 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. This product data sheet (issue 09/2008) replaces previous issues.

To the best of our knowledge the information contained in this publication is accurate. Ion Exchange (India) Ltd. maintains a policy of continuous development and reserves the right to amend the information given herein without notice.

**INDION** is the registered trademark



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