

# INDION® 890

## Description

INDION 890 is a weak base anion exchanger containing tertiary amine and quaternary ammonium groups having a crosslinked poly-styrene matrix.

It has a macroporous structure which gives excellent mechanical strength and exceptional resistance to osmotic shock. It is supplied moist in free base form.

## Applications

INDION 890 has optimum operating capacity for the removal of strong acids and is particularly suitable for use as a weak base anion exchanger preceding a strong base anion exchanger while treating process liquors containing a high proportion of free mineral acidity.

INDION 890 is specially recommended for use in non-water, pharma, and specialty applications.

<b>Characteristics</b>	
Appearance	Off white to brown opaque beads
Matrix	Styrene divinyl Benzene Copolymer
Functional group	Tertiary amine
Ionic form as supplied	Free base
Total exchange capacity	1.4 meq/ml, minimum
Moisture holding capacity	52 – 56 %
Shipping weight*	620 – 670 kg/m <sup>3</sup> , approximately
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	0.40 to 0.55 mm
Maximum operating temperature	60° C in free base form 80° C in HCl form
Operating pH range	0 to 7
Volume change	Free base to Hydrochloride, 25% maximum
Resistance to reducing agents	GOOD
Resistance to oxidizing agents	Generally good, chlorine should be absent
<b>Impurities</b>	
Iron	80 mg/l maximum as Fe
Heavy Metals	40 mg/l maximum as Pb
Water soluble organics	0.2 mg KMnO <sub>4</sub> /ml, maximum
* 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	:	35/40/42 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 become

dry. Regularly open the plastic bags and check the condition of the resin when in storage. If not moist, add enough clean demineralized water and keep it in a completely moist condition. Always keep the resin 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 oxidizing 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.

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 of Ion Exchange (India) Ltd.



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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](http://www.ionexchangeglobal.com) | [www.ionresins.com](http://www.ionresins.com)

