

# INDION® 236 P

## Description

INDION 236 P is a weak acid, unifunctional cation exchange resin containing carboxylic acid groups. It is based on cross-linked polyacrylic acid and is supplied as moist white beads in the hydrogen form.

INDION 236 P is recommended for the reduction of alkalinity in boiler feed water.

INDION 236 P is also widely used in the treatment of water for many industrial processes.

It is subjected to special treatment process, to reduce the leachables from it. This makes the resin suitable for use in beverage industry for recycling of wash water.

### Characteristics

Appearance	:	Opaque white to pale yellow beads
Matrix	:	Gel polyacrylic copolymer
Functional Group	:	Carboxylic acid
Ionic form as supplied	:	Hydrogen
Total exchange capacity	:	4.0 meq/ml, minimum
Moisture holding capacity	:	46 - 54 %
Shipping weight *	:	740 kg/m <sup>3</sup> , approximately
Particle size range	:	0.3 to 1.2 mm
> 1.2 mm	:	5.0%, maximum
< 0.3 mm	:	2.0%, maximum
Uniformity co-efficient	:	1.7, maximum
Effective size	:	0.4 to 0.5 mm
Volume change	:	H to Na, 80-120 %
Maximum operating temperature	:	120° C
Operating pH range	:	0 to 14
Resistance to reducing agents	:	Good
Resistance to oxidizing agents	:	Generally good, chlorine should be absent
Water soluble organics	:	0.2 mg KMnO <sub>4</sub> /ml of wet resin, maximum

\* Weight of resin, as supplied, occupying 1 m<sup>3</sup> in a unit after backwashing and draining

## Use of good quality regenerants

All ion exchange resins are subject to fouling and blockage of active groups by precipitated iron. Hence the iron content in the feed water should be low and the regenerant must be essentially free from iron and heavy metals. All resins are prone to oxidative attack, resulting in problems such as loss of physical strength. Therefore, the regenerant should have as low chlorine content as possible. Good quality regenerant of technically or chemically pure grade should be used to obtain best results.

## Packing

HDPE lined bags	25/50 lts	LDPE bags	1cft/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 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 of Ion Exchange (India) Ltd.



### CORPORATE OFFICE

Ion House, Dr. E. Moses Road, Mahalaxmi, Mumbai 400 011  
Tel: 022-3989 0909 Fax: 022-2493 8737  
E-mail: ieil@ionexchange.co.in ; hocro@ionexchange.co.in

### INTERNATIONAL DIVISION

R-14, T.T.C MIDC, Thane-Belapur Road, Rabale, Navi Mumbai 400 705  
Tel: 022-3989 0909/3913 2400 Fax: 022-2769 7918  
E-mail: rabcrointl@ionexchange.co.in; export.sales@ionexchange.co.in

### REGIONAL OFFICES

- Chennai - Tel: 044-3910 2900/ 3989 0909 Fax: 044-2815 3361  
E-mail: checra@ionexchange.co.in
- Delhi - Tel: 011-3989 0909/3054 3200 Fax: 011-2577 4837  
E-mail: delcro@ionexchange.co.in
- Kolkata - Tel: 033-3989 0909/3043 3400 Fax: 033-2400 4345  
E-mail: calcro@ionexchange.co.in
- Vashi - Tel: 022-3989 0909/3913 2300 Fax: 022-2788 9839  
E-mail: mumcro@ionexchange.co.in

### BRANCH OFFICES

- Bengaluru - Tel:-080-22042888  
E-mail: bngcro@ionexchange.co.in
- Bhubaneshwar - Tel: 0647-326 9525  
E-mail: bbsr@ionexchange.co.in
- Chandigarh - Tel: 0172-274 5011 Fax: 0172-274 4594  
E-mail: delcro@ionexchange.co.in
- Hyderabad - Tel: 040-3066 3101/02/03 Fax: 040-3066 3104  
E-mail: hydrcro@ionexchange.co.in
- Lucknow - Tel: 0522-301 3401/02 Fax: 0522- 301 3401  
E-mail: luk.general@ionexchange.co.in
- Vadodara - Tel: 0265-302 7489/90 Fax: 0265-239 8508  
E-mail: brdcro@ionexchange.co.in
- Visakhapatnam - Tel: 0891-324 6253  
E-mail: sales.vizag@ionexchange.co.in

### FACTORIES

• Ankleshwar • Hosur • Patancheru • Rabale • Verna

ALL INDIA NETWORK OF SERVICE COMPANIES AND DEALERS

Visit us at : [www.ionindia.com](http://www.ionindia.com)