

INDION[®] 224

Description

INDION 224 is a high purity pharmaceutical grade strongly acidic cation exchange resin, supplied as dry beads. It is suitable for use in pharmaceutical applications for sustained release of drugs. INDION 224 is derived from a sulphonated co - polymer of styrene and divinyl benzene. It is supplied in hydrogen form.

Applications

INDION 224 imparts controlled or sustained release properties to oral dosage forms through the formation of drug resin complex (drug resinates). The drug is released from the resinate in vivo as it reaches equilibrium with the high electrolyte concentration which is typical of the gastro - intestinal tract.

INDION 224 has proved to be an effective sustained release agent for drugs like Pseudo ephedrine HCl and Ephedrine HCl.

Characteristics

Appearance	:	Brown beads
Matrix	:	Crosslinked polystyrene
Functional Group	:	Sulphonic acid
Ionic form as supplied	:	Hydrogen
Solubility	:	Insoluble in water and in common solvents

Specifications

Particle size distribution Retained on 72 BSS mesh (210 microns)	:	2.0%, maximum
Moisture content	:	3 %, maximum
Total exchange capacity	:	4.8 meq/g dry, minimum
Iron content as Fe	:	100 ppm, maximum
Heavy metals content as Pb	:	20 ppm, maximum
Arsenic content as As	:	3 ppm, maximum

Toxicity

INDION 224 is a high molecular weight crosslinked polymer. It is therefore not absorbed by body tissues and is totally safe for human consumption. Tests for toxicological tolerance show that it does not have any pronounced physiological action at recommended dosage level and it is definitely non - toxic. Experiments on mice have shown LD 50 value of INDION 224 to be approximately 2700 mg/kg body weight.

Packing

HDPE carboys with inner
double plastic liner bags

6 / 20 / 40 kgs

Storage

INDION 224 is hygroscopic in nature. It is therefore essential to store it in a tightly packed container to prevent absorption of atmospheric moisture. If moisture is absorbed, INDION 224 can be dried at 90° C to 100° C for approximately 6 hrs, to reduce the moisture content below 3%.

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



CORPORATE OFFICE

Tiecicon 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 0909/3047 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: checro@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

- **Bangalore** - Tel:-080-3251 6205, Cell:09341247700
E-mail: bngcro@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: hydcro@ionexchange.co.in
- **Lucknow** - Tel: 0522-301 3401/02 Fax: 0522- 301 3401
E-mail: luk.general@ionexchange.co.in
- **Pune** - Tel: 020-3062 6160 Fax: 020-2714 6109
E-mail: pun.general@ionexchange.co.in
- **Vadodara** - Tel: 0265-239 6506/6507 Fax: 0265-239 8508
E-mail: brdcro@ionexchange.co.in
- **Vizag** - 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