

INDION® CAM 19

Description

INDION CAM 19 is a nuclear grade mixed ion exchange resin. It is a mixture of highly purified and super regenerated nuclear grade strong acid cation resin. INDION 223 Li and nuclear grade strong base Type I anion resin INDION GS300NG in 1:9 volume ratio.

Applications

INDION CAM 19 is recommended in any non regenerable mixed bed application where reliable production of the highest quality water is required and where "as supplied" resin must have an absolute minimum of ionic and nonionic contamination.

Characteristics

Physical

Appearance	:	Spherical beads
Shipping weight *	:	670 kg/m ³ , approximately
Particle size range	:	0.3 to 1.2 mm
> 1.2 mm	:	5.0%, maximum
< 0.3 mm	:	0.5%, maximum
Uniformity co-efficient	:	1.7, maximum
Effective size	:	0.45 to 0.60 mm
Microscopic Examination	:	Surface cracks not more than 5%

Chemical

Cation resin

Anion resin

Matrix	Styrene DVB copolymer	Styrene DVB copolymer
Type	Gel	Gel
Functional Group	Sulphonic acid	Quaternary ammonium
Total exchange capacity	1.9 meq/ml	1.1 meq/ml
Ionic conversion	99% minimum in Li form	94% minimum in OH form 1% maximum in Cl form 5% maximum in CO ₃ form
Moisture holding capacity	47 - 53 %	46 -52 %
Bead strength	500 g/bead, (avg)	250 g/bead, (avg)
Thermal stability	Up to 120° C	Up to 60° C

Chemical stability	:	Stable in pH range 0 - 14 Resistant to oxidizing and reducing agents Stable in Radiation field upto 10 ⁷ rad
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Ionic impurities

Iron content	:	20 mg/l, maximum as Fe
Copper content	:	10 mg/l, maximum as Cu
Heavy metals	:	10 mg/l, maximum as Pb
Water soluble Organics	:	0.1 mg KMnO ₄ /ml maximum

* Weight of resin, as supplied, occupying 1 m³ in a unit after backwashing and draining.

Packing

PVC Jars with inner liner bags	5 / 6 lts
LDPE lined bags	0.5 cft / 1 cft / 25 lts
HDPE lined bags	25 / 50 lts
HDPE drums	50 / 100 / 180 lts

Storage

Ion exchange resins require proper care at all times. The resins must never be allowed to become dry. The

drums should therefore be always kept in shade. The resin drums should therefore be kept in tightly closed condition.

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.

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

INTERNATIONAL DIVISION

R-14, T.T.C MIDC, Thane-Belapur Road, Rabale, Navi Mumbai 400 701
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: 044-3989 0909/3910 2900 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

- Bengaluru - Tel: 080-2204 2888
E-mail: bngcro@ionexchange.co.in
- Bhubaneswar - Tel: 0674-326 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: hydcro@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
- Vishakhapatnam - Tel: 0891-324 6253
E-mail: sales.vizag@ionexchange.co.in

FACTORIES : Ankleshwar • Hosur • Patancheru • Rabale • Verna
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