## /KININ TOR

## Description

INDION TCR is a crosslinked macroporous ion exchanger having thio-uronium as functional groups. It has been specifically developed for the selective adsorption of mercury and precious metals. INDION TCR is completely insoluble in water and all common solvents. It is stable in acidic as well as alkaline pH range. INDION TCR has excellent physical stability due to its macroporous structure.
It is unaffected by reducing agents. However, INDION TCR can get decrosslinked in the presence of oxidising
agents such as chlorine, peroxides, permanganates etc. It is therefore essential to remove all the oxidants from the process stream, before it comes in contact with INDIONTCR.

## Applications

INDION TCR is specifically used for removing mercury and precious metals from waste water and other streams.

## Characteristics

Appearance
Matrix
Functional group
Ionic form as supplied
Total exchange capacity
Moisture holding capacity
Shipping weight*
Opaque off white to brown beads
Crosslinked polystyrene
This - uranium
: Hydrogen
: $\quad 1.4 \mathrm{meq} / \mathrm{ml}$, minimum
$: \quad 41-47 \%$

Particle size range

$$
>1.2 \mathrm{~mm}
$$

$$
<0.3 \mathrm{~mm}
$$

Uniformity co-efficient
Effective size
Maximum operating temperature
Operating pH range
Volume change
Resistance to reducing agents
Resistance to oxidising agents
$: \quad 0.3 \mathrm{~mm}$ to 1.2 mm
: $\quad 5.0 \%$, maximum
: $\quad 1.0 \%$, maximum
: $\quad 1.7$, maximum
: $\quad 0.40$ to 0.50 mm
$80^{\circ} \mathrm{C}$
1 to 10
$: \quad \mathrm{H}^{+}$to $\mathrm{Hg}^{+2},-6 \%$ approximately
: Good
Generally good, chlorine should be absent
*Weight of resin, as supplied, occupying $1 \mathrm{~m}^{3}$ in a unit after backwashing and draining.

## Packing

HDPE Lined bags
Super sack
MS drums
with liner bags

25/ 50 lts
1000 Its
Super sack
Fiber drums
180 Its

## Storage

lon exchange resin requires 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 $20^{\circ} \mathrm{C}$ and $40^{\circ} \mathrm{C}$.

## 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.

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.
INTIOW is the registered trademark of Ion Exchange (India) Ltd.

## ION EXCHANGE (INDIA) LTD.

## Corporate Office

Ion House, Dr. E. Moses Road,
Mahalaxmi, Mumbai 400011
Tel: +91 2239890909 | Fax: +91 2224938737
E-mail: ieil@ionexchange.co.in

## International Division

R-14, T.T.C MIDC, Thane - Belapur Road,
Rabale, Navi Mumbai 400701
Tel: +91 2239890909 / 39132400 | Fax: +91 2227697918
E-mail: export.sales@ionexchange.co.in

OFFICES

| Regional | Telephone | Fax | E-mail |
| :---: | :---: | :---: | :---: |
| Chennai | +91443989 0909 / 39102900 | +914428153361 | checro@ionexchange.co.in |
| Delhi | +91113989 0909 / 30543200 | +911125774837 | delcro@ionexchange.co.in |
| Kolkata | +9133 $39890909 / 30433400$ | +913324004345 | calcro@ionexchange.co.in |
| Vashi | +91223989 $0909 / 39132300$ | +9122 27889839 | mumcro@ionexchange.co.in |
| Branch |  |  |  |
| Bengaluru | +918022042888 | +9180285 32002 | bngcro@ionexchange.co.in |
| Bhubaneswar | +916743269525 / 2571491 |  | bbsr@ionexchange.co.in |
| Chandigarh | +911722745011 | +91172274 4594 | delcro@ionexchange.co.in |
| Hyderabad | +914030663101/02 / 03 | +914030663104 | hydcro@ionexchange.co.in |
| Lucknow | +915223199911 | +911125774837 | Iko.general@ionexchange.co.in |
| Vadodara | +912653027489 / 90 | +91265 2352932 | brdcro@ionexchange.co.in |
| Visakhapatnam | +91891324 6253 |  | sales.vizag@ionexchange.co.in |
| Factories: Ankleshwar \| Hosur | Patancheru | Rabale | Verna |  |  | All India Service and Dealer Network |

