

INDION[®] ASM

Description

INDION ASM is an ion exchange resin based media designed to selectively remove arsenic from ground water without affecting the characteristics of influent water.

INDION ASM performs well, even in the presence of common anions such as chlorides, sulphates or bicarbonates. INDION ASM is used like conventional ion exchange resins.

Characteristics	
Appearance	Reddish brown beads
Matrix	Gel
Moisture holding capacity	47 - 54%
Shipping weight*	700 - 740 kg/m ³
True density	1.145 g/ml, approximately
Particle size range	0.3 mm to 1.2 mm
Effective size	0.45 to 0.60 mm
Operating parameters:	
Maximum operating temperature	60 ^o C
Operating pH range	6.5 to 9.0
Arsenic adsorption capacity	0.5 - 2.0g/l
Static arsenic adsorption capacity	25 - 37 mg/g
Recommended contact time	2.5 to 5 minutes (Typical 3 minutes)
Specific service flow rate	Typical 20-30 BV/h
Minimum bed depth	0.5 m

Salient features

- INDION ASM Selectively removes arsenic in presence of other anions.
- It removes As III as well as AS IV.
- INDION ASM is operated like conventional ion exchange resins and operates at conventional pressures.
- Physically stable during usage, does not generate fines.
- Effluent arsenic levels does not exceed influent levels at any point of normal operation.
- Ideal for municipal and residential POE & POU devices.
- INDION ASM was tested for Volatile organic compounds VOC's, and found to be within the drinking standard as per EPA 8021 B.
- Water treated through INDION ASM was tested for oral toxicity as per IP (Indian Pharmacopoeia) and found to be safe for human consumption.
- Exhausted INDION ASM is non-toxic and safe for disposal as per TCLP (Toxicity characteristic leaching procedure as per EPA 1311). Please follow Local regulations for disposal.

Note: -

- It is recommended to rinse the resin with minimum 10 bed volumes of DM water before taking it into service.

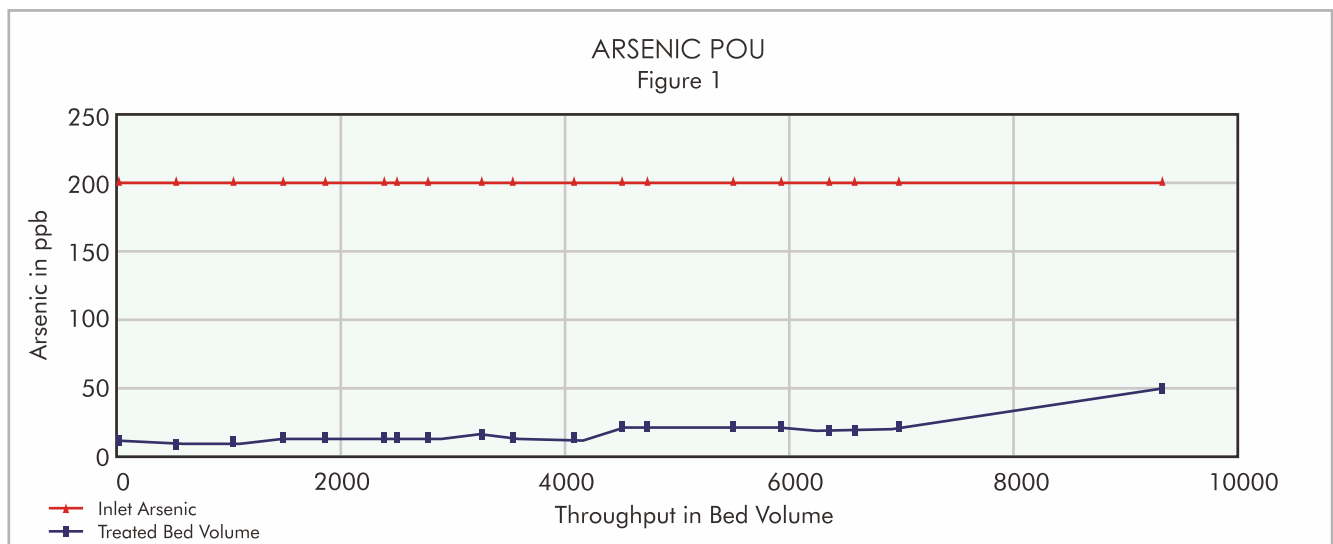
- It is recommended to pre-treat and pre-filter the influent water to obtain best results.
- The desirable influent water quality must be within the specified limits.
- Turbidity 1 NTU, Iron - < 0.5 ppm, Manganese - < 0.5 ppm, Oil & grease Nil, Organics Nil, Arsenic 3000 ppb max.
- Presence of Phosphates, Vanadium and Silica can affect the Arsenic removal capacity.

Field performance of Arsenic removal unit.

Point of use unit:-

Location: Block Development Office, Dist. Nadia, West Bengal

Inlet feed water quality		
Sr.No.	Parameters	Values
1	pH	7.30
2	Conductivity	600 - 700 μ s / cm
3	Alkalinity	352 ppm as CaCO ₃
4	Total Hardness	340 ppm as CaCO ₃
5	Iron	0.5 to 1 ppm as Fe
6	Arsenic	0.2 ppm as As
7	Treatment flow rate LPH	60 - 90

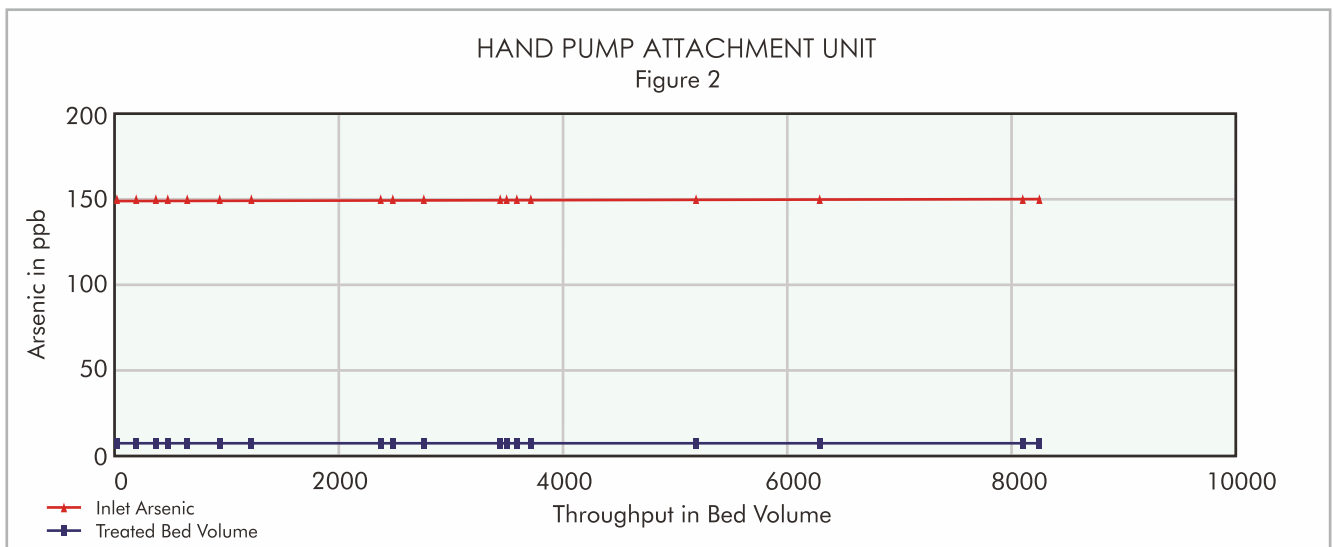


Field performance of Arsenic removal unit.

Hand pump attachment unit:-

Location: Govindpur Haldarpada, at Debogram (Dist Nadia), West Bengal

Inlet feed water quality		
Sr.No.	Parameters	Values
1	pH	7.30
2	Conductivity	600 - 700 $\mu\text{s} / \text{cm}$
3	Alkalinity	264 ppm as CaCO_3
4	Total Hardness	240 ppm as CaCO_3
5	Iron	0.15 to 1 ppm as Fe
6	Arsenic	0.15 to 0.2 ppm as As
7	Treatment flow rate LPH	600 - 700



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 resins must never be allowed to become dry.

Repeated drying and rewetting produce stresses analogous to those due to osmotic shock and can lead to fragmentation of Ion exchangers.

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.



Tested and certified by WQA against NSF/ANSI/CAN 61. See WQA website (www.wqa.org) for use restrictions & limitations. NOTE : "Arsenic claims not tested by WQA and claims based on internal testing".

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.



ION EXCHANGE (INDIA) LTD.

Corporate Office

Ion House, Dr. E. Moses Road, Mahalaxmi,
Mumbai - 400011 | Tel: +91 22 6231 2000
E-mail: ieil@ionexchange.co.in

International Division

R-14, T.T.C MIDC, Thane - Belapur Road, Rabale,
Navi Mumbai - 400 701 | Tel: +91 22 6857 2400
E-mail: export.sales@ionexchange.co.in

Regional and Branch Offices

Bengaluru | Bhubaneswar | Chandigarh | Chennai
Delhi | Hyderabad | Kolkata | Lucknow | Vadodara
Vashi | Visakhapatnam

Overseas Offices

Bangladesh | Canada | Indonesia | Kenya
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 | www.ionresins.com

