

INDION® ORC

Description

INDION ORC is a catalyst which enhances electrochemical redox process to remove oxidants such as chlorine and hydrogen peroxide.

Super chlorination of raw water is done in the food and beverage industry. INDION ORC is recommended for dechlorination to reduce the free chlorine level to nil.

INDION ORC is effective for decomposition of

hydrogen peroxide even at a very high concentration of 500 ppm.

Being a catalyst it does not get consumed in the reaction hence, the process becomes cost competitive over existing treatment technologies.

Half dechlorination value of INDION ORC is found far superior over commercially available activated carbon.

Characteristics

Appearance	:	Black beads
Shipping weight *	:	720 kg/m ³ , approximately
Particle size range	:	0.3 to 1.2 mm

Operating Parameters

Minutes bed depth	:	0.8 to 1.0 m
Empty bed contact time (EBCT)	:	1.2 - 1.5
Service flow rate	:	40 - 50 BV/h
Backwash flow rate	:	20 - 30 BV/h
Free board	:	40 - 50 %
pH	:	> 7
TSS	:	< 5 ppm
Oil and grease	:	Nil
Organic matter	:	< 2 ppm
Turbidity	:	< 5 NTU

Recharge of Unit

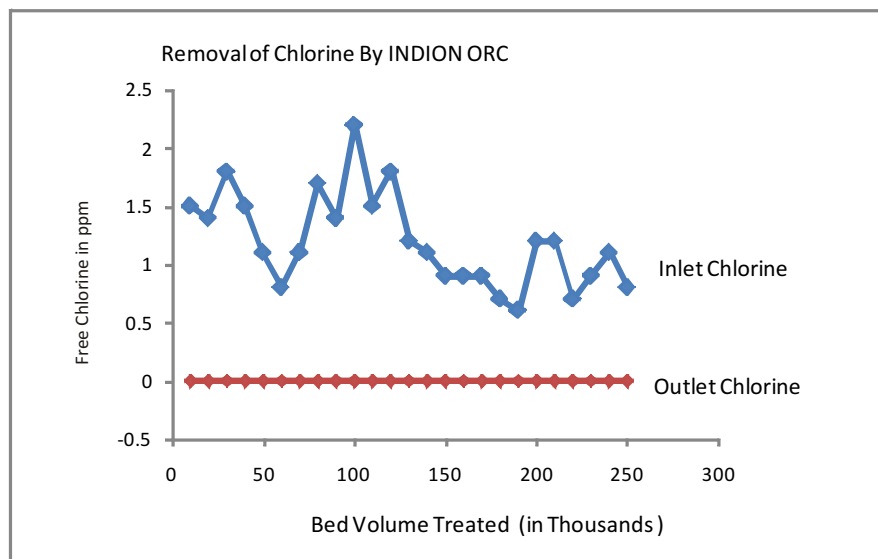
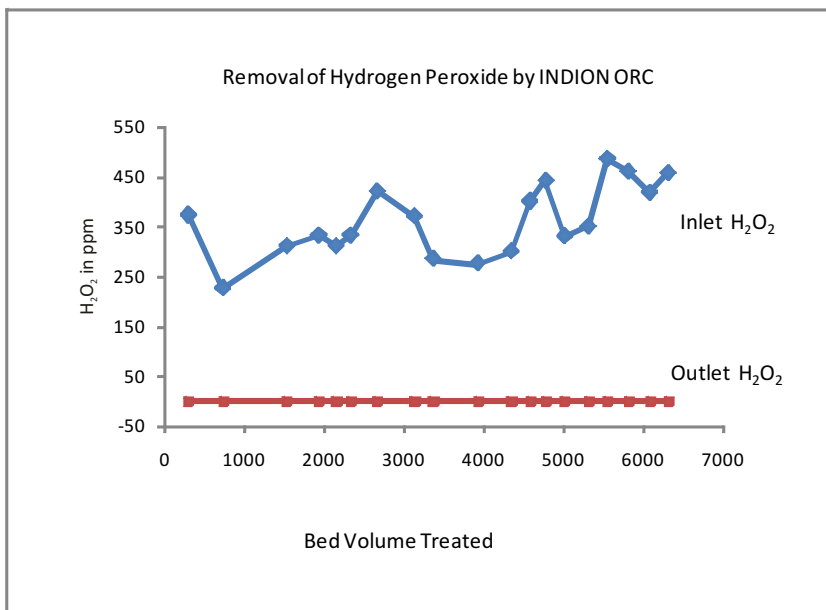
Backwash with chlorine free water is sufficient to recharge the unit.

Backwash for 30 minutes after 8 to 10 hours of service, subject to inlet water quality

Technical Superiority of INDION ORC Media in Comparison with Activated Carbon Filter

Parameters	Activated Carbon with 450 - 500 Iodine value	INDION ORC Media
Life of media (year)	1	2
Empty bed contact time (minutes)	2.5 - 3.0	1.2 to 1.5
Half dechlorination value (cm)	7.0	4 to 4.5
Service flow rate (BV/h)	20	40 - 50
Backwash flow rate (BV/h)	5 - 10	20 - 30

Pilot Scale Performance of Media



Storage

INDION ORC require proper care at all times. The catalyst 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 catalyst drum in the shade. Recommended storage temperature is between 20° C to 40° C.

Packing

HDPE Lined bags	25/ 50 lts	LDPE bags	1 cft / 25 lts
Super sack	1000 lts	Super sack	35 cft
MS drums		Fiber drums	
with liner bags	180 lts	with liner bags	7 cft

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. Please contact our regional / branch offices for current product specifications.

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

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