

INDION[®] GMW 11(GVI)

Description

INDION Indion GMW 11(GVI) is a mixed ion exchange resin. It is a mixture of macroporous weak base anion exchange resin and colour indicating strong cation exchange resin in a 1:1 volume ratio.

Applications

INDION GMW 11(GVI) is recommended in any non regenerable mixed bed application where removal of silica and carbonic acid is not required. INDION GMW 11(GVI) ensures reliable production of high quality water and where "as supplied" resin must have an absolute minimum of ionic and nonionic contamination. A colour indicator allows the visualisation of the exhaustion point of the resin.

Characteristics

Physical

Appearance	:	Spherical beads
Shipping weight *	:	710 kg/m ³ , approximately
Particle size range	:	0.3 to 1.2 mm
> 1.2 mm	:	5.0%, maximum
< 0.3 mm	:	1.0%, 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	Crosslinked polystyrene	Crosslinked polystyrene
Type	Gel	Macroporous
Functional Group	Sulphonic acid	Tertiary amine
Total exchange capacity	1.8 meq/ml (in Na form)	1.5 meq/ml
Ionic conversion	99% minimum in H form	80% minimum in free base form
Moisture holding capacity	55 - 60 %	47 - 55 %
Thermal stability	Up to 120° C	Up to 60° C
Colour indicator	Green(regenerated form) Violet (exhausted form)	None

Chemical stability	:	Stable in pH range 0 - 14 Resistant to oxidizing and reducing agents
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* 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. Since

INDION GMW 11(GVI) is supplied in highly regenerated condition, any exposure to atmospheric air must be avoided.

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.



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