

# INDION® 264

## Description

INDION 264 is a high purity pharmaceutical grade weak acid cation exchange resin, supplied in the hydrogen form as a free flowing powder. It is suitable for pharmaceutical application for stabilization of drugs like Vitamin B12. It is based on a crosslinked polyacrylic matrix.

## Applications

Vitamin B12 deteriorates on storage. This necessitates addition of overages, leading to significant increase in the cost of the formulation. The stability of Vitamin B12 can be prolonged by complexing it with a weak acid cation exchange resin such as INDION 264.

This complex is as effective as the free form of the vitamin. Thus the introduction of INDION 264 in the formulation significantly reduces the overages.

## Toxicity

INDION 264 is a high molecular weight crosslinked polymer. It is therefore not absorbed by body tissues and is totally safe for human consumption. Tests for toxicological tolerance show that it does not have any pronounced physiological action at recommended dosage levels and is definitely non-toxic. Experiments on mice have shown LD 50 value of INDION 264 to be approximately 4,500 mg/kg body weight.

### Characteristics

Appearance	:	White free flowing powder
Matrix	:	Crosslinked acrylic polymer
Functional Group	:	Carboxylic acid
Ionic form as supplied	:	Hydrogen
Solubility	:	Insoluble in water and in common solvents

### Specifications

Particle size distribution Retained on 100 BSS mesh (150 microns)	:	1%, maximum
Retained on 200 BSS mesh (75 microns)	:	30%, minimum
Moisture content	:	5 %, maximum
pH of 10% slurry	:	2.5 - 3.5
Iron content as Fe	:	100 ppm, maximum
Heavy metals content as Pb	:	20 ppm, maximum
Arsenic content as As	:	3 ppm, maximum
Total exchange capacity	:	10 meq/dry g, minimum

## Packing

HDPE carboys with inner double plastic liner bags

6 / 20 / 40 kgs

## Storage

INDION 264 is hygroscopic in nature. It is therefore essential to store it in a tightly packed container to prevent absorption of atmospheric moisture. If moisture is absorbed, INDION 264 can be dried at 90° C to 100° C for approximately 6 hours, to reduce the moisture content below 5%.

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. This product data sheet (issue 09/2008) replaces previous issues.

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



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