

INDION® BF 170

Bio-diesel Purification

Description

Indion BF170 is a dry ion exchange resin best suited to remove impurities such as trace salts, glycerin and soaps from Biodiesel. This dry resin will act as a desiccant to remove water present in traces in Biodiesel.

Indion BF 170 is used to purify the Biodiesel after phase separation and demethylation stages. Biodiesel treated through BF 170 will meet ASTM or EU specifications for B 100.

The life span of the resin depends on Impurity levels in the feed Biodiesel, the flow rate and quantity of resin in the column. Defining the levels of glycerin, salt, water and unreacted catalyst in the stream being processed, is critical for the amount of resin required for processing.

Based on the quality of biodiesel generally available in the industry, it is seen that 1 kg of BF170 will be able to treat 1000 - 1500 kgs of biodiesel.

Characteristics

Appearance	:	Golden yellow to brown beads
Matrix	:	Styrene divinyl benzene copolymer
Functional Group	:	Acidic
Bulk density	:	0.83 g/ml, approximately
Solubility	:	Insoluble in water and in common solvents

Specifications

Particle size distribution	:	0.3 to 1.2 mm
Moisture content	:	< 3%

Caution

Indion BF 170 is used in processes which are water free. The resin will swell two to three times its original volume as it absorbs water. The resin also swells while treating Biodiesel as it removes methanol, glycerol etc. Hence, sufficient free space must be provided while designing the columns.

Packing

HDPE carboys with inner
double plastic liner bags

25 / 50 kgs

Storage

Indion BF 170 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 BF 170 can be dried at 90° C to 100° C for approximately 6 hrs, to reduce the moisture content below 3 %.

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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