

# **INDION<sup>®</sup> 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                                    |
| 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 state-of-the-art ISO 9001 and ISO 14001 certified manufacturing facility at Ankleshwar, Gujarat.

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 400 011  
Tel: +91 22 3989 0909 | Fax: +91 22 2493 8737  
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 3989 0909 / 3913 2400 | Fax: +91 22 2769 7918  
E-mail: export.sales@ionexchange.co.in

### OFFICES

| Regional      | Telephone                    | Fax              | E-mail                        |
|---------------|------------------------------|------------------|-------------------------------|
| Chennai       | +91 44 3989 0909 / 3910 2900 | +91 44 2815 3361 | checro@ionexchange.co.in      |
| Delhi         | +91 11 3989 0909 / 3054 3200 | +91 11 2577 4837 | delcro@ionexchange.co.in      |
| Kolkata       | +91 33 3989 0909 / 3043 3400 | +91 33 2400 4345 | calcro@ionexchange.co.in      |
| Vashi         | +91 22 3989 0909 / 3913 2300 | +91 22 2788 9839 | mumcro@ionexchange.co.in      |
| Branch        |                              |                  |                               |
| Bengaluru     | +91 80 2204 2888             | +91 80 2853 2002 | bngcro@ionexchange.co.in      |
| Bhubaneswar   | +91 674 326 9525 / 257 1491  |                  | bbsr@ionexchange.co.in        |
| Chandigarh    | +91 172 274 5011             | +91 172 274 4594 | delcro@ionexchange.co.in      |
| Hyderabad     | +91 40 3066 3101 / 02 / 03   | +91 40 3066 3104 | hydrcro@ionexchange.co.in     |
| Lucknow       | +91 522 319 9911             | +91 11 2577 4837 | lko.general@ionexchange.co.in |
| Vadodara      | +91 265 302 7489 / 90        | +91 265 2352 932 | brdcro@ionexchange.co.in      |
| Visakhapatnam | +91 891 324 6253             |                  | sales.vizag@ionexchange.co.in |

Factories: Ankleshwar | Hosur | Patancheru | Rabale | Verna

All India Service and Dealer Network

[www.ionindia.com](http://www.ionindia.com) | [www.ionresins.com](http://www.ionresins.com)