



AMBERLITE™ BD10DRY

Industrial Grade Strong Acid Cation Exchanger

Introduction

AMBERLITE BD10DRY is a sulfonic acid resin, supplied in the dry form. This resin has been specially developed to remove catalyst, soap, and glycerol traces from Biodiesel. It is a ready-to-use resin. AMBERLITE BD10DRY greatly simplifies Biodiesel purification. It may be used without any special pre-treatment.

Properties

Physical form	Dark brown spherical beads
Ionic form as shipped	Hydrogen
Concentration of acid sites	≥ 4.90 eq/kg
Volatiles content	≤ 5 %
Fines content	< 0.300 mm : 5 % max
Shipping Weight	870 g/L (54.3 lbs/ft ³)
Swelling ^[1]	Dry to biodiesel : 6 - 15 % (depending on biodiesel) Dry to methanol: 130 % Dry to water : 150 %

Suggested Operating Conditions

Maximum operating temperature	120°C (250 °F)
Minimum bed depth	60 cm (24 inches)
Operating flow rate	1 to 5 BV*/h (LHSV)
Pressure drop limitation	1 bar (15 psig) across the bed

^[1] Note: 1 L of AMBERLITE BD10DRY resin will swell to a volume of approximately 1.06–1.15 L in biodiesel, to 2.3 L in methanol and to 2.5 L in water. Please make sure to factor this into your column design and leave sufficient freeboard.

For more information about DOW™ resins, call the Dow Water & Process Solutions business:

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