



AMBERLYST™ 15DRY

Industrial Grade Strongly Acidic Catalyst

Introduction

AMBERLYST 15DRY is a bead form, strongly acidic ion exchange resin developed particularly for heterogeneous acid catalysis of a wide variety of organic reactions. It is also useful in non aqueous ion exchange systems for the removal of cationic impurities.

The macroreticular pore structure of AMBERLYST 15DRY permits ready access of liquid or gaseous reactants to the hydrogen ion sites located throughout the bead, thus ensuring successful performance even in non swelling organic media. The main applications are alkylation, esterification, etherification, condensation hydrolysis.

Properties

Physical form	Opaque beads
Ionic form as shipped	Hydrogen
Concentration of acid sites	≥ 4.7 eq/kg
Water content	≤ 1.6 % (H ⁺ form)
Shipping weight	610 g/L (38 lbs/ft ³)
Fines contents	< 0.300 mm : 0.5 % max < 0.425 mm : 2 % max
Nitrogen BET	
Surface area	53 m ² /g
Average pore diameter	300 Å
Total pore volume	0.40 cc/g
Swelling	Dry to phenol : 38 %

Suggested Operating Conditions

Maximum operating temperature	120°C (250°F) in non aqueous media
Minimum bed depth	600 mm (24 inches)
Operating flow rate	1 to 5 BV*/h (LHSV)
Pressure drop limitation	1 bar (15 psig) across the bed

All our products are produced in ISO 9001 certified manufacturing facilities.

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

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