

**AMBERLYST™ 36DRY**

Industrial Grade Strongly Acidic Catalyst

Introduction

AMBERLYST 36DRY is a bead form, macroreticular, sulfonic acid ion exchange resin developed particularly for heterogeneous catalysis.

The special process used to manufacture AMBERLYST 36DRY results in a particularly high concentration of acid groups and also confers an improved thermal stability when compared to catalysts with a similar level of crosslinking. It is also less prone to the polymer fouling.

AMBERLYST 36DRY is mainly used in the phenol alkylation processes.

Properties

Physical form	Opaque beads
Ionic form as shipped	Hydrogen
Concentration of acid sites	≥ 5.40 eq/kg
Water content	≤ 1.65%
Shipping weight	770 g/L (48 lbs/ft ³)
Particle size	
Fines content	< 0.300 mm: 5.0% max
Coarse beads	> 1.180 mm: 5.0% max
Nitrogen BET	0.550 to 0.700 mm
Surface area	33 m ² /g
Average pore diameter	240 Å
Total pore volume	0.20 cc/g
Swelling	Dry to phenol: 20%

Suggested Operating Conditions

Maximum operating temperature	150°C (300°F)
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

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