



# AMBERLYST® 15DRY

Industrial Grade Strongly Acidic Catalyst

## PRODUCT DATA SHEET

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.

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### PROPERTIES

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Physical form \_\_\_\_\_  
Ionic form as shipped \_\_\_\_\_  
Concentration of acid sites <sup>[1]</sup> \_\_\_\_\_  
Water content <sup>[1]</sup> \_\_\_\_\_  
Shipping weight \_\_\_\_\_  
Fines content <sup>[1]</sup> \_\_\_\_\_  
Surface area \_\_\_\_\_  
Average pore diameter \_\_\_\_\_  
Swelling \_\_\_\_\_

Opaque beads  
Hydrogen  
≥ 4.7 eq/kg  
≤ 1.5 % (H<sup>+</sup> form)  
610 g/L (38 lbs/ft<sup>3</sup>)  
< 0.300 mm : 1.0 % max  
45 m<sup>2</sup>/g  
250 Å  
60 to 70 % (dry to water)  
10 to 15 % (dry to hexane)  
10 to 15 % (dry to toluene)  
15 to 20 % (dry to ethylene dichloride)  
30 to 40 % (dry to ethyl acetate)  
60 to 70 % (dry to ethyl alcohol, 95 %)  
15 to 20 % (dry to phenol)  
3 to 5 % (dry to benzene)

<sup>[1]</sup> Contractual value

Test methods are available on request.

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### SUGGESTED OPERATING CONDITIONS

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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

\* 1 BV = 1 m<sup>3</sup> solution per m<sup>3</sup> of resin

All our products are produced in ISO 9002 certified manufacturing facilities.

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**WEB SITE: <http://www.rohmhaas.com/ionexchange>**



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