

PRODUCT DATA SHEET

AMBERLYST 35DRY 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 35DRY 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 minimal water content of AMBERLYST 35DRY makes it excellent for use in non-aqueous systems where the presence of water will have a negative effect on catalytic activity. Also the higher thermal limit and higher dry weight capacity of AMBERLYST 35DRY make it the catalyst of choice for phenol alkylation, esterification, etherification, and condensation hydrolysis.

PROPERTIES

Physical form
Ionic form as shipped
Concentration of acid sites ^[1]
Water content ^[1]
Shipping weight
Particle size
Fines content ^[1]
Coarse beads
Nitrogen BET
Surface area
Average pore diameter
Total pore volume
Swelling
^[1] Contractual value

Hydrogen ≥ 5.0 eq/kg ≤ 3 % (H⁺ form) 560 g/L (35 lbs/ft³)

Opaque beads

< 0.300 mm : 1.0 % max> 1.180 mm : 5.0 % max

50 m²/g 300 Å 0.35 cc/g Dry to phenol : 27 %

Test methods are available on request.

SUGGESTED OPERATING CONDITIONS

Maximum operating temperature	
Minimum bed depth	
Operating flow rate	
Pressure drop limitation	

* 1 BV = 1 m^3 solution per m^3 of resin

150°C (300°F) in non aqueous media 600 mm (24 inches) 1 to 5 BV*/h (LHSV) 1 bar (15 psig) across the bed

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

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Ion exchange resins and polymeric adsorbents, as produced, contain by-products resulting from the manufacturing process. The user must determine the extent to which organic by-products must be removed for any particular use and establish techniques to assure that the appropriate level of purity is achieved for that use. The user must ensure compliance with all prudent safety standards and regulatory requirements governing the application. Except where specifically otherwise stated, Rohm and Haas Company does not recommend its ion exchange resins or polymeric adsorbents, as supplied, as being suitable or appropriately pure for any particular use. Consult your Rohm and Haas technical representative for further information. Acidic and basic regenerant solutions are corrosive and should be handled in a manner that will prevent eye and skin contact. Nitric acid and other strong oxidising agents can cause explosive type reactions when mixed with lon Exchange resins. Proper design of process equipment to prevent rapid buildup of pressure is necessary if use of an oxidising agents used as intric acid is contemplated. Before using strong oxidising agents in contact with lon Exchange Resins, consult sources knowledgeable in the handling of these materials.

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