

Aldex Catalyst Series

C-15H MP High Activity Catalyst

Aldex C-15H MP is a **macroreticular, strongly acidic, cation solid acid catalyst**. Its open pore structure makes it an excellent catalyst for a wide variety of organic reactions. Aldex C-15H MP has a **unique acid functionality which results in higher thermal stability versus standard catalysts**. Further, large pores allow for easy ingress and egress of ions to access sulfonic acid sites. The S-DVB matrix is highly cross-linked and is resistant to oxidants and breakdown caused by mechanical and osmotic shock.

Physical Chemical Properties

Polymer Structure:	Sulfonated styrene/ divinylbenzene copolymer
Ionic Form as Shipped:	Hydrogen
Physical Form:	Grey, spherical beads
Screen Size Distribution:	
+16 mesh (U.S. Std.)	Less than 1%
-16+40 mesh	98%
-40+50 mesh	1% maximum
pH Range:	0 to 14
Moisture Content	50 to 60%
Conversion to H ⁺ Form:	99% minimum
Shipping Weight:	49 lbs per cubic foot
Total Capacity H ⁺ Form:	1.7 meq/ml minimum
Dry Weight Capacity:	4.8 meq/g minimum
Pore Volume:	0.3 to 0.4 ml/g
Surface Area:	35 to 55
Mean Pore Diameter:	20 to 50 nm
Specific Gravity:	1.23

Recommended Operating Conditions

Maximum Temperature:	120°C
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C-15H MP Features

Uniform Particle Size

98% of all beads are in the minus 16 to plus 40 mesh range giving a lower pressure drop while maintaining the superior kinetics of standard mesh size products.

Superior Physical Stability

90% plus sphericity and high crush strengths together with a very uniform particle size provide greater resistance to bead breakage while maintaining low pressure drop.

Applications

Aldex C-15H MP is a superior next generation catalyst used in the production of MTBE and TAME and significantly outperforms conventional catalysts. With Aldex C-15H MP you may be able to operate at higher flow rates thereby increasing productivity with no major impact on the catalyst performance in terms of conversion.

Safety Information

A material safety data sheet is available for Aldex C-15H MP. Copies can be obtained from Aldex Chemical Co., LTD.

Aldex C-15H MP is not a hazardous product and is not WHMIS controlled.

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