

Purolite® CT275

PRODUCT DATA SHEET

Macroporous Strong Acid Resin Catalyst

The wet **Purolite CT275** catalyst is a macroporous, strongly acidic, polymeric catalyst. Its unique properties include higher acid strength, higher total acid sites and higher thermal stability. The catalyst also has a unique structure with properties that include a large pore diameter and volume allowing reactants access to those active acid sites. Because of its larger pore structure, it has a greater resistance to fouling due to the formation of polymeric side products. In addition, it has lower shrinking and swelling properties. **Purolite CT275** has been developed to catalyze many organic reactions including oxygenates such as ETBE, MTBE and TAME and silicon-based polymer chemistry.

Typical Physical and Chemical Characteristics

Application	MTBE & TAME - Highly Crosslinked - High Capacity
Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Spherical Beads
Functional Group	Sulfonic Acid
Ionic Form as Shipped	H ⁺
Dry Weight Capacity (min.)	5.2 eq/kg
Moisture Retention	51 - 59 % (H ⁺ form)
Particle Size Range	425 - 1200 µm
<425 µm (max.)	1 %
Uniformity Coefficient (max.)	1.7
Specific Surface Area	20 - 40 m ² /g
Pore Volume	0.4 - 0.6 ml/g
Median Pore Diameter D50A	400 - 700
Surface Acidity Acid Strength	60 kJ mol ⁻¹
Specific Gravity	1.2
Shipping Weight (approx.)	755 - 790 g/l (47 - 49 lb/ft ³)
Temp Limit, H ⁺ Form	130°C (265°F)



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