

FULCAT 435

Clay Catalyst and Adsorbent

Product Data

Special Features and Benefits

FULCAT 435 is an acid activated clay catalyst and adsorbent. Acid activation of the natural clay structure develops Lewis and Brönsted acid sites and a high surface area useful in a wide range of acid catalysed reactions. The low iron content of FULCAT 435 provides improved specificity in some reactions, whilst the high surface area of FULCAT 435 also delivers a product with excellent adsorption properties.

Typical Properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Free Water wt%:	10.0 ± 2.0
Particle Size, 10 % less than (µm):	2.5 Minimum
Particle Size, 50 % less than (µm):	25 ± 10
Particle Size, 90 % less than (µm):	100 Maximum
Acidity, pH of 2 % dispersion:	3.6 ± 0.4
Chemical Composition (Dry Basis) SiO ₂ :	69 %
Chemical Composition (Dry Basis) Al ₂ O ₃ :	14 %
Chemical Composition (Dry Basis) Fe ₂ O ₃ :	1.2 %
Chemical Composition (Dry Basis) MgO:	2.7 %
Chemical Composition (Dry Basis) Na ₂ O:	0.4 %
Chemical Composition (Dry Basis) Loss on Ignition:	9.5 %
Acidity, Acid Value mg KOH g ⁻¹ :	14
Porosimetry, Surface Area m ² g ⁻¹ :	300
Porosimetry, Pore Volume cm ³ g ⁻¹ :	0.4
Bulk Density, Fully Settled kg m ⁻³ :	720

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This issue replaces all previous versions – Printed in Germany