



Fulcat® Product Range Summary

Clay Catalyst and Adsorbent

The **Fulcat®** product range comprises a series of clay catalysts based on the natural clay mineral Montmorillonite. The range includes both refined natural clay products and acid activated derivatives. Acid activation facilitates the development of significant surface area and pore volume in combination with catalytically active acid sites of both Brönsted and Lewis types. By selection of the natural clay and processing conditions products have been developed exhibiting a range of Surface Area, Pore Volume and Acid Site distributions providing catalysts suitable for a wide range of acid catalysed applications.

Technical Properties (Typical values)

Grade		200	220	22B	400	435
Type		Natural	Acid	Acid	Natural	Acid
<u>Free Water</u>	wt%	11.0	7.0	6.0	11.0	11.5
<u>Chemical Composition (Dry Basis)</u>						
SiO ₂	wt%	58	64	64	58	69
Al ₂ O ₃	wt%	17	15	15	21	14
Fe ₂ O ₃	wt%	8	6	6	1.7	1.2
Loss on Ignition	wt%	7.0	7.5	7.5	8.5	9.5
<u>Porosimetry</u>						
Surface Area	m ² g ⁻¹	100	240	250	80	300
Pore Volume	cm ³ g ⁻¹	0.1	0.3	0.3	0.1	0.4
<u>Acidity</u>						
pH of 2% Slurry	-	8.9	2.9	2.8	8.5	3.5
<u>Particle Size</u>						
10% less than	µm	5	6	10	3	3
50% less than	µm	27	45	50	20	25
90% less than	µm	75	90	80	55	95

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