

UNISIL - HCS

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Replaces: All Previous Issues

TYPICAL PHYSIOCHEMICAL PROPERTIES

PROPERTY	UNIT	UNISIL HCS
Surface Area (BET) ⁴	m ² /gm	180-210
Average Particle size ⁸	micron	8-12
pH (2% acq. solution) ⁶	---	8.5 - 10.5
Moisture loss on drying at 105°C (2 hrs) ²	%	6.5 ± 1.5
Ignition Loss (excl. moisture) at 900° C ³	% max	14
Water Absorption	%	340-440
Bulk Density ^{1,5}	gm/cc	0.07 - 0.12
Whiteness	%	90-95
Refractive Index	---	1.47
Specific Gravity	---	2.1
Silica SiO ₂ ⁷	%	70-80
Calcium (CaO)	%	15-25
Chlorides	%	0.5
Sulphate	%	1.0
Arsenic (As)	ppm max	2
Lead (Pb)	ppm max	5

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1) At the time of packing 2) By IR Moisture Balance 3) IS:12076-1986(A-4) 4) Determined on coulter SA 3100 Surface Area Analyzer (by Nitrogen adsorption BET method) 5) IS: 7589-1974 (A-8) 6) IS: 12076-1986(A-2) 7) IS: 2850-1983 (A-5.1) 8) Based on material ignited at 900°C for 1 hour. 9) Determined on SEM-XRD machine.

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CERTIFICATIONS

