

UNISIL - NK-3 HS

TYPICAL PHYSIOCHEMICAL PROPERTIES

PROPERTY	UNIT	UNISIL NK-3 HS
Appearance	-	Snow White Free Flowing Powder
Behaviour towards water	-	Hydrophilic
Moisture (105°C) ²	%	6 ± 1.5
Ignition Loss (900° C for 2 hrs) ³	% max	6
Surface Area (BET) ⁴	m ² /gm	150 ± 10
Average Particle size – D50 ⁹	nm	3-5
Water Absorption	%	240-270
Oil Absorption	%	235-265
Bulk Density ^{1,5}	gm/cc	0.06-0.08
pH (2% acq. solution) ⁶	---	6.8 ± 0.5
Residue on 300 mesh ⁷	% max	0.1
Specific Gravity	---	2 ± 0.02
Refractive Index	---	1.46
SiO ₂ ⁸	%	98-99
Al ₂ O ₃ ⁸	% max	0.2
R ₂ O ₃ ⁸	% max	0.3
Fe as Fe ₂ O ₃ ⁸	% max	0.3
Storage Stability	Practically unlimited under favorable transport/storage condition.	
Packing	kgs/bag	25
Heavy metals as Pb	ppm	20 max
Microbiological impurities	should pass	Passes tvc/yeast & mould and E Coli test

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

