UNISIL

PPT SILICA AND SILICATES

MLA GROUP

RIGHT CHEMISTRY, RIGHT PEOPLE

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]	m2/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_2O_3[8]	% max	0.2
R_2O_3[8]	% max	0.3
Fe as Fe_2O_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 900ºC for 1 hour. **9)** Determined on SEM-XRD machine.

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CERTIFICATIONS

ISO 9001-2008 CERTIFIED

Sedex CERTIFIED

DSIR APPROVED R&D