

## Precipitated Silica

<b>Physiochemical Properties of Precipitated Silica (Powder Products)</b>		
<b>Property</b>	<b>Unit</b>	<b>Catosil NK-3 HS</b>
Appearance	--	Snow White free flowing powder
Behaviour towards water	--	Hydrophilic
Moisture (105 <sup>0</sup> C)	%	5+1.5
Ignition loss (900 <sup>0</sup> C for 2 hrs)	% max	6
Surface Area (BET)	m <sup>2</sup> / gm	150+10
Average Particle size (d50)	nm	3-5
Water Absorption	%	240-270
Oil absorption	%	235-265
Bulk Density*	gm/cc	0.06-0.08
PH (5% acq. Solution)	-	6.8+0.5
Residue on 300 mesh	% max	0.1
Specific Gravity	--	2+0.02
Refractive Index	--	1.46
SiO <sub>2</sub>	%	98-99
Al <sub>2</sub> O <sub>3</sub>	% max	0.2
R <sub>2</sub> O <sub>3</sub>	% max	0.3
Fe as Fe <sub>2</sub> O <sub>3</sub>	% max	0.03
Storage Stability	Pratically Unlimited Under Favourable Transport / Storage Conditions	
Packing	Kgs / bag	25



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<b>Physiochemical Properties of Precipitated Silica (Spray Dried Granules)</b>		
<b>Property</b>	<b>Unit</b>	<b>Catosil NK-3 (Spray Dried)</b>
Appearance	--	Snow White free flowing powder
Behaviour towards water	--	Hydrophilic
Moisture (105 <sup>0</sup> C)	%	5+1.5
Ignition loss (900 <sup>0</sup> C for 2 hrs)	% max	170+15
Surface Area (BET)	m <sup>2</sup> / gm	290-320
Average Particle size primary secondary	nm	15
	µm	5
Water Absorption	%	240-260
Oil absorption	%	235-255
Bulk Density*	gm/cc	0.22-0.28
PH (5% acq. Solution)	-	6.2-7.0
Specific Gravity	--	2+0.02
Refractive Index	--	1.46
SiO <sub>2</sub>	%	98-99
Al <sub>2</sub> O <sub>3</sub>	%	0.2
R <sub>2</sub> O <sub>3</sub>	%	0.2
Fe as Fe <sub>2</sub> O <sub>3</sub>	%	0.03
Arsenic (As)	ppm max	5
Lead (Pb)	ppm max	5
Storage Stability	Pratically Unlimited Under Favourable Transport / Storage Conditions	
Packing	Kgs / bag	25



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<b>Physiochemical Properties of Precipitated Silica (Pelletized Products)</b>		
<b>Property</b>	<b>Unit</b>	<b>Catosil NK-3 (Spray Dried)</b>
Appearance	--	Snow White free flowing powder
Behaviour towards water	--	Hydrophilic
Moisture (105 <sup>0</sup> C)	%	5±.1.5
Ignition loss (900 <sup>0</sup> C for 2 hrs)	% max	170±.15
Surface Area (BET)	m <sup>2</sup> / gm	290-320
Average Particle size primary secondary	nm	15
	µm	5
Water Absorption	%	240-260
Oil absorption	%	235-255
Bulk Density*	gm/cc	0.30-0.35
PH (5% acq. Solution)	-	6.2-7.0
Specific Gravity	--	2±.0.02
Refractive Index	--	1.46
SiO <sub>2</sub>	%	98-99
Al <sub>2</sub> O <sub>3</sub>	%	0.2
R <sub>2</sub> O <sub>3</sub>	%	0.2
Fe as Fe <sub>2</sub> O <sub>3</sub>	%	0.03
Arsenic (As)	ppm max	5
Lead (Pb)	ppm max	5
Storage Stability	Pratically Unlimited Under Favourable Transport / Storage Conditions	
Packing	Kgs / bag	25