

# Dr. Khan Industrial Consultants Pvt. Ltd

## Colloidal Silica Specification Sheet

Grades	CS30				CS40		CS50	Special	
	30-350	30-300	30-250	30-200	40-220	40-150	50-130	40-NH3	30-SM
Specs									
Silica wt %	30	30	30	30	40	40	50	40	30
Specific Gravity	1.210	1.210	1.210	1.210	1.295	1.295	1.395	1.295	1.210
pH	9.8-10.0	9.8-10.0	9.5-10.0	9.0-10.0	9.0-9.5	9.0-9.5	9.0-9.5	9.0-9.5	8.0-9.0
Viscosity cps, 20C (max)	7	7	7	5	20	15	20	20	10
Surface Area m <sup>2</sup> /gm	330-350	290-300	240-260	190-210	210-220	150-160	130-140	180-200	210-220
Particle Size nanometers	7.5-8.5	9-9.5	10.5-11.5	13-14.5	12.5-13	17-18	19-20	13-14.5	12.5-13
Na <sub>2</sub> O wt %	0.4-0.50	0.40-0.45	0.35-0.40	0.30-0.35	0.40-0.45	0.35-0.40	0.25-0.35	---	0.30-0.35
Stabilizing Ion	Na <sup>+</sup>	Na <sup>+</sup>	Na <sup>+</sup>	Na <sup>+</sup>	Na <sup>+</sup>	Na <sup>+</sup>	Na <sup>+</sup>	NH <sub>3</sub> <sup>+</sup>	Al-modified
Appearance	A	A	B	C	C	C	C	B	B

A- Clear with Bluish Opalescence

B- Bluish White Opalescent

C- Milky White

In addition to the above grades, DKIC also specializes in tailor made grades as per typical specs of the customer

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