



DATA SHEET
NexSil™ 85K-40

NexSil™ 85K-40 Colloidal Silica

PRODUCT DESCRIPTION

NexSil 85K-40 colloidal silica is a large-particle product primarily intended as an abrasive for formulated polishing slurries. NexSil 85K-40 is based on high-purity colloidal silica and contains very low levels of trace impurities, minimizing the introduction of impurities in the polishing process.

TYPICAL PROPERTIES

Appearance:	Milky White
SiO ₂ Content, %:	39 – 41
K ₂ O Content, %:	0.03 – 0.3
DLS Particle Size, nm:	75 – 95
Specific Surface Area, m ² /g:	40 – 70
pH:	8.6 – 9.8
Viscosity, cps:	<15
Surface Charge:	Negative
Specific Gravity:	1.284 – 1.303
LPC #/ml 1.0 micron:	<100,000

TYPICAL IMPURITIES (PPM)

<u>Metal</u>	<u>@ 40% SiO₂</u>
Al	<150
Ca	<10
Cr	<1
Co	<5
Cu	<1
Fe	<25
Pb	<1
Mg	<5
Mn	<5
Na	<150
K	Major
Ni	<1
Ti	<40
Zr	<40
Zn	<5

TYPICAL IMPURITIES

The data details trace impurities on a total contained basis for NexSil 85K-40 at 40% SiO₂ concentration.

FOR ADDITIONAL INFORMATION OR TO ORDER MATERIAL

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