

Technical Data

KONASIL Amorphous Fumed Silica

KONASIL grades K-150 and K-200 are hydrophilic fumed silicas produced by the hydrolysis of chlorosilane vapor in a hydrogen and oxygen flame. The resulting high purity silicon dioxide has amorphous, non-crystalline form and performs a variety of functions, including rheology control and polymer reinforcement. Fumed silica products are used in a wide variety of formulations, including coatings, cosmetics, adhesives, sealants, elastomers, foods, and inks.

Grades	Units	K-150	K-200
Specifications			
Surface Area	m ² /g	150 ± 20	200 ± 25
pH (4% aqueous slurry)	--	3.7 - 4.7	3.7 - 4.7
Other Typical Properties			
Loss on Heating (2 hr @ 105°C) ¹	wt. %	≤1.0	≤1.0
Loss on Ignition (2 hr @ 1000°C) ¹	wt. %	≤1.0	≤1.5
Tap Density			
standard	g/l	50	50
densed	g/l	100	100
325 Mesh Residue (45 µm)	wt. %	<0.05	<0.05
Chemical Composition			
SiO ₂ Content	wt. %	≥99.8	≥99.8
Al ₂ O ₃ Content	wt. %	<0.05	<0.05
Fe ₂ O ₃ Content	wt. %	<0.003	<0.003
TiO ₂ Content	wt. %	<0.03	<0.03
HCL	wt. %	<0.025	<0.025
General Properties that apply to all grades			
Specific Gravity	g/cm ³	2.2	
Refractive Index		1.46	
X-ray Form		Amorphous	

¹At time of packaging
 Test methods are available upon request

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