

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	≤1.5
Loss on Ignition (2 hr @ 1000°C) ¹	wt. %	≤1.0	≤1.5
Tap Density			
standard	g/l	50	50
densed ²	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

²Densed grades are designated by letter "D" next to grade number

Test methods are available upon request

Important Notice: *The information and statements herein are believed to be reliable but are not to be construed as warranty or representation for which DC Chemical Co., Ltd. assumes legal responsibility. Users should undertake sufficient verification and testing to determine suitability for their own particular use or application.*