

US Silica White® Hydraulic Fracturing Sand



This Northern White monocrystalline alpha-quartz proppant is derived primarily from the St. Peter and Wonewoc formations. The extremely durable proppant exhibits exceptional strength, integrity and purity, and will not degrade or dissolve during handling and pumping associated with normal fracturing operations.



ADVANTAGES AND BENEFITS:

- Proppant specific gravity of 2.65 enables maximum suspension and lateral fracture placement
- Compatible with all hydraulic fracturing chemicals
- Excellent crush resistant classification or K-Value
- Meets or exceeds API RP-19C and ISO 13503-2 specifications for particle distribution, roundness and sphericity, turbidity, and solubility

TYPICAL PHYSICAL PROPERTIES AND CHEMICAL PROPERTIES

API RP-19C / ISO 13503-2

Product	Mesh Size	Crush Resistance K-Value	Bulk Density g/cm ³	Particle Density g/cm ³	Typical Median Diameter D50 (mm)	Acid Solubility (%)	Krumbein Shape Factor		Turbidity (NTU)
							Roundness	Sphericity	
US Silica White	20/40	6K	1.48 - 1.60	2.64 - 2.66	0.523 - 0.562	0.7	0.7	0.8	10 - 110
US Silica White	30/50	7K	1.48 - 1.60	2.64 - 2.66	0.384 - 0.413	0.8	0.7	0.7	10 - 120
US Silica White	40/70	9K	1.48 - 1.60	2.64 - 2.66	0.292 - 0.302	0.8	0.6	0.7	10 - 140

CONDUCTIVITY

Product	Mesh Size	CONDUCTIVITY MD-FT at 150°F 2 LB/FT ²					
		Closure Stress [PSI]					
		2,000	4,000	6,000	8,000	10,000	12,000
US Silica White	20/40	3,678	2,685	1,484	652	321	163
US Silica White	30/50	1,871	1,323	903	474	231	125
US Silica White	40/70	1,082	877	598	323	168	107

PERMEABILITY

Product	Mesh Size	PERMEABILITY DARCY at 150°F 2 LB/FT ²					
		Closure Stress [PSI]					
		2,000	4,000	6,000	8,000	10,000	12,000
US Silica White	20/40	202	150	86	40	20	11
US Silica White	30/50	99	71	51	28	14	8
US Silica White	40/70	58	48	33	19	10	7

Disclaimer: The information set forth in this Product Data Sheet represents typical properties of the product described; the information and the typical values are not specifications. U.S. Silica Company makes no representation or warranty concerning the products, (expressed or implied) by this product data sheet.

Warning: The product contains respirable crystalline silica-quartz, which can cause silicosis (an occupational lung disease) and lung cancer. For detailed information on the potential health effects of respirable crystalline silica – quartz, see the U.S. Silica Company Safety Data Sheet.

