Southern Premium™ Hydraulic Fracturing Sand

US SILICA ...for the LIFE of your well...®

This Southern Premium™ quartz proppant is produced from the traditional southern sand deposits, such as the Hickory and Queen City Sand formations. Sand from these deposits has been used for decades in the oil and gas industry due to its close proximity to southern oil and gas drilling locations, such as the Permian Basin, Eagle Ford Shale and Haynesville Shale. Southern Premium™ sand can generally be delivered to the wellhead at lower cost than Northern White sand. For some wells, Southern Premium™ sand will produce a superior return on investment relative to Northern White deposits.

ADVANTAGES AND BENEFITS:

- Proppant specific gravity of 2.65 enables maximum suspension and lateral fracture placement.
- Enables enhanced hydrocarbon production for the LIFE of your well®.
- Economic alternative to “Northern White Sand”.
- Compatible with all hydraulic fracturing fluids.
- Meets or exceeds API RP-19C and ISO 13503-2 specifications for particle distribution, roundness and sphericity, turbidity, and solubility.

APPLICATIONS:

- All sandstone and fractured shale formations requiring high-strength quartz proppants.
- Recommended for formations requiring high relative conductivity for effective fracture.

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES
API RP-19C / ISO 13503-2

Product	Mesh Size	Crush Resistance K-Value	Bulk Density g/cm³	Particle Density g/cm³	Typical Median Diameter D50 (mm)	Acid Solubility (%)	Roundness	Sphericity	Turbidity (NTU)
Southern Premium	20/40	5K	1.48 - 1.60	2.64 - 2.66	0.608 - 0.612	1.7	0.6	0.7	10 - 110
Southern Premium	30/50	6K	1.48 - 1.60	2.64 - 2.66	0.394 - 0.398	1.8	0.6	0.7	10 - 130
Southern Premium	40/70	6K	1.48 - 1.60	2.64 - 2.66	0.276 - 0.280	1.8	0.6	0.7	10 - 130

CONDUCTIVITY

Product	Mesh Size	CONDUCTIVITY MD-FT at 150°F 2 LB/FT² Closure Stress [PSI] 2,000	4,000	6,000	8,000
Southern Premium	20/40	4,023	2,266	847	319
Southern Premium	30/50	1,758	1,151	590	247
Southern Premium	40/70	1,191	661	266	95

PERMEABILITY

Product	Mesh Size	PERMEABILITY DARCY at 150°F 2 LB/FT² Closure Stress [PSI] 2,000	4,000	6,000	8,000
Southern Premium	20/40	217	128	51	20
Southern Premium	30/50	96	65	35	16
Southern Premium	40/70	67	37	15	5

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Disclaimer: The information set forth in this Product Data Sheet represents typical properties of the product described; the information and the typical values.

Warning: The product contains respirable crystalline silica-quartz, which can cause silicosis (an occupational lung disease) and lung cancer.

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