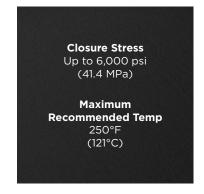


This is Tier 1, natural frac sand. Its sub-angular shape, monocrystalline structure, and ISO compliant sizing create a product with superior conductivity and crush resistance compared to other silica sands.

APPLICATIONS AND BENEFITS

- For use in oil and gas wells: enhanced conductivity and crush resistance to minimize production declines over time
- For use in industrial and recreation applications: spherical silica sand that is less abrasive and provides better drainage



PHYSICAL PROPERTIES

Mesh Size	Specific Gravity	Bulk Density lb/ft3	Bulk Density g/cm3	Roundness	Sphericity	Turbidity (NTU)	Crush Resistance K-Value
16/30	2.65	96.67	1.55	0.7	0.7	91	6K

CONDUCTIVITY (MD/FT), 50 HOURS @ 150 DEGREES F

Closure Stress	2,000	4,000	6,000	8,000
16/30	10,208	4,568	1,890	803

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Silica/Silica Containing

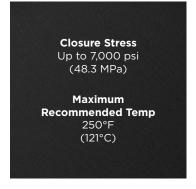




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APPLICATIONS AND BENEFITS

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PHYSICAL PROPERTIES

Mesh Size	Specific Gravity	Bulk Density lb/ft3	Bulk Density g/cm3	Roundness	Sphericity	Turbidity (NTU)	Crush Resistance K-Value
20/40	2.65	96.23	1.53	0.6	0.7	104	7K

CONDUCTIVITY (MD/FT), 50 HOURS @ 150 DEGREES F

Closure Stress	2,000	4,000	6,000	8,000
20/40	15,617	2,522	1,241	455

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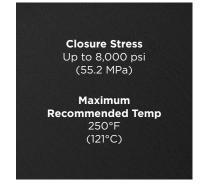




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APPLICATIONS AND BENEFITS

- For use in oil and gas wells: enhanced conductivity and crush resistance to minimize production declines over time
- For use in industrial and recreation applications: spherical silica sand that is less abrasive and provides better drainage



PHYSICAL PROPERTIES

Mesh Size	Specific Gravity	Bulk Density lb/ft3	Bulk Density g/cm3	Roundness	Sphericity	Turbidity (NTU)	Crush Resistance K-Value
30/50	2.63	92.97	1.49	0.6	0.8	18	8K

CONDUCTIVITY (MD/FT), 50 HOURS @ 150 DEGREES F

Closure Stress	2,000	4,000	6,000	8,000
30/50	2,148	1,346	786	431

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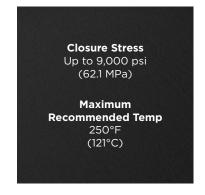




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APPLICATIONS AND BENEFITS

- For use in oil and gas wells: enhanced conductivity and crush resistance to minimize production declines over time
- For use in industrial and recreation applications: spherical silica sand that is less abrasive and provides better drainage



PHYSICAL PROPERTIES

Mesh Size	Specific Gravity	Bulk Density lb/ft3	Bulk Density g/cm3	Roundness	Sphericity	Turbidity (NTU)	Crush Resistance K-Value
40/70	2.61	91.71	1.47	0.7	0.7	37	9K

CONDUCTIVITY (MD/FT), 50 HOURS @ 150 DEGREES F

Closure Stress	2,000	4,000	6,000	8,000
40/70	1,321	903	438	190

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100 Mesh

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APPLICATIONS AND BENEFITS

- For use in oil and gas wells: enhanced conductivity and crush resistance to minimize production declines over time
- For use in industrial and recreation applications: spherical silica sand that is less abrasive and provides better drainage

Closure Stress Up to 11,000 psi (75.8 MPa) Maximum

Recommended Temp 250°F (121°C)

PHYSICAL PROPERTIES

Mesh Size	Specific Gravity	Bulk Density lb/ft3	Bulk Density g/cm3	Roundness	Sphericity	Turbidity (NTU)	Crush Resistance K-Value
100 Mesh	2.60	90.40	1.45	0.7	0.7	69	11K

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