

40/70-Mesh

Premium frac sand



APPLICATIONS

- Hydraulic fracturing operations
- Operations that require proppant with premium performance specifications

BENEFITS

- Ensures superior long-term conductivity due to high crush resistance
- Minimizes fines generation due to high roundness and sphericity
- Withstands closure stresses up to 10,000 psi

FEATURES

- Compliance with API RP 19C and ISO 13503-2
- Roundness and sphericity values typically greater than or equal to 0.7
- Low acid solubility and turbidity reduce dust and fines generation
- High silica content provides superior crush performance

40/70-mesh premium frac sand is selected with the highest quality standards. Sourced from Midwest mines in Wonewoc formations, 40/70-mesh premium frac sand exceeds industry expectations for high-quality Northern White sand. The high resistance to crush and very low acid solubility enable 40/70-mesh premium frac sand to withstand harsh downhole conditions and maintain strength and integrity after fracture closure.



40/70-mesh premium frac sand has high silica content with roundness and sphericity values typically greater than or equal to 0.7.

Properties	
Density, g/cm ³	2.65
Bulk density, g/cm ³	1.52
Roundness	0.7
Sphericity	0.7
Grain size distribution (GSD), in size wt %	>90
Acid solubility, % [†]	0.6
Turbidity, NTU	24.0

[†]Performed in 12:3 mud acid for 30 minutes at 150 degF [66 degC]

Crush Test (ISO 13503-2)

Stress, psi	Fines, wt %
5,000	1.2
10,000	9.3
11,000	13.3
K value	10,000

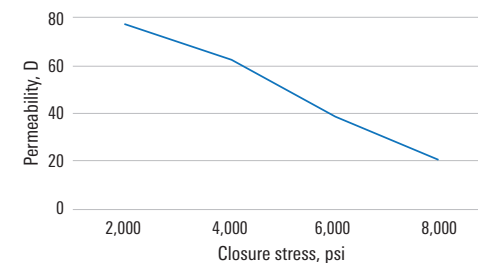
Conductivity and Permeability

Stress, psi	Conductivity, mD-ft	Permeability, D
2,000	1,328	76
4,000	1,049	62
6,000	623	38
8,000	308	20

Test Conditions: ISO 13503-5
Wisconsin Sandstone, 150 degF [66 degC], 2 lbm/ft² [9.8 kg/m²]
50 h, 2 wt % (167 lbm/1,000 galUS [20 kg/m³]) potassium chloride (KCl)

Typical Sieve Analysis

Mesh	wt %
30	0.00
40	0.10
45	5.60
50	31.60
60	42.80
70	17.1
100	0.10
Pan	0.00
Median diameter, mm	0.284



Permeability measured at 150 degF, 2 lbm/ft². High crush resistance, roundness and sphericity values contribute to high permeability.