

SQS 40/70

Standard Sand



APPLICATIONS

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

BENEFITS

- Provides a conductive pathway for oil and gas production
- Minimizes fines generation due to high roundness and sphericity
- Withstands closure stresses greater than 10,000 psi

FEATURES

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

SQS 40/70 standard sand is sourced from mines in West Texas and in the region of operations. It meets all API RP 19C standards for acid solubility in hydrochloric acid, the acid of choice in North American fracturing operations.

All sources for this proppant are carefully selected for quality with properties that ensure the proppant's ability to withstand typical downhole environments without degradation and maintain a conductive pathway after fracture closure.



SQS 40/70 standard sand suits technical and economic requirements for wells with normal closure stress.

PROPERTIES

Density, g/cm ³	2.65
Bulk density, g/cm ³	1.49
Roundness	0.8
Sphericity	0.7
Grain size distribution (GSD), in size wt %	>90
Acid solubility, %†	2.0
Turbidity, NTU	10

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

CRUSH TEST (ISO 13503-2)

STRESS, PSI	FINES, WT%
7,000	9.0
8,000	12.4

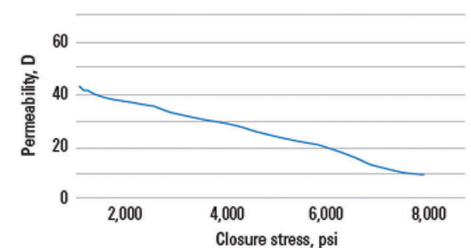
CONDUCTIVITY AND PERMEABILITY

STRESS, PSI	CONDUCTIVITY, MD-FT	PERMEABILITY, D
2,000	800	41
4,000	520	28
6,000	274	16
8,000	132	8

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

TYPICAL SIEVE ANALYSIS

MESH	WT%
30	0.00
40	0.20
45	11.5
50	25.0
60	36.6
70	26.1
100	0.6
Pan	0.0
Median diameter, mm	0.284



High crush resistance and roundness and sphericity values contribute to high permeability.

Permeability measured at 150 degF, 2 lbm/ft².