



UHSP-11

Comprehensively Engineered Bauxite Ceramic Proppant

UHSP-11 is an ultra-high conductive and very high strength ceramic proppant designed for extreme closure stress and high temperature environments.

UHSP-11 has been developed after three years of intensive ceramic engineering efforts based on the unique mineralogical properties of the Bonasika bauxite deposits in Guyana.

UHSP-11 is engineered for well conditions of extreme depth and temperature and exhibits high stress crush resistance, conductivity and permeability performance that sets the industry standard for these conditions, particularly in offshore deepwater applications.

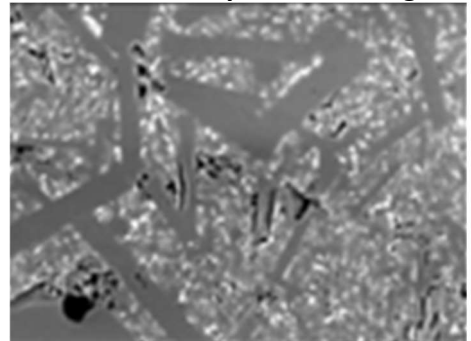
UHSP-11

Improved well performance and increased recoveries and returns are now achievable.

Excellent roundness and sphericity



Al₂TiO₅ "rods" provide strength



Physical Properties 20/40

Characteristic	Measure
Roundness	0.9
Sphericity	0.9
Bulk Density (lb/ft ³)	131.7
Bulk Density (g/cm ³)	2.11
Apparent Specific Gravity	3.68
Absolute Volume (gal/lb)	0.0326
Apparent Density (g/cc)	3.33

Mineralogical Analysis 20/40

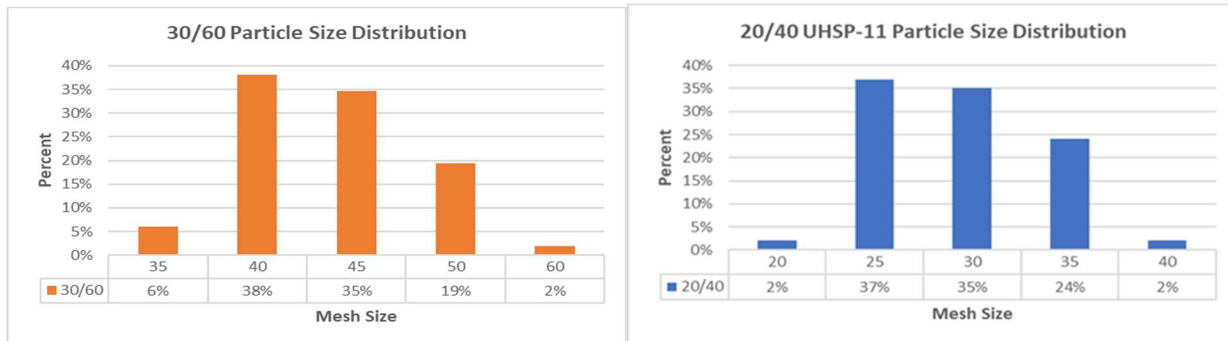
Phase	Analysis (%)
Corundum	94.44
Titanium Aluminate	5.56

Chemical Properties 20/40

Element	%
Al ₂ O ₃	89.4
SiO ₂	3.14
TiO ₂	3.34
MnO	2.83
Fe ₂ O ₃	0.35
CaO	0.46
MgO	0.34
P ₂ O ₅	0.13
Cr ₂ O ₃	0.08
K ₂ O	0.03
Na ₂ O	<0.49
LOI	-0.08



Sieve Distribution

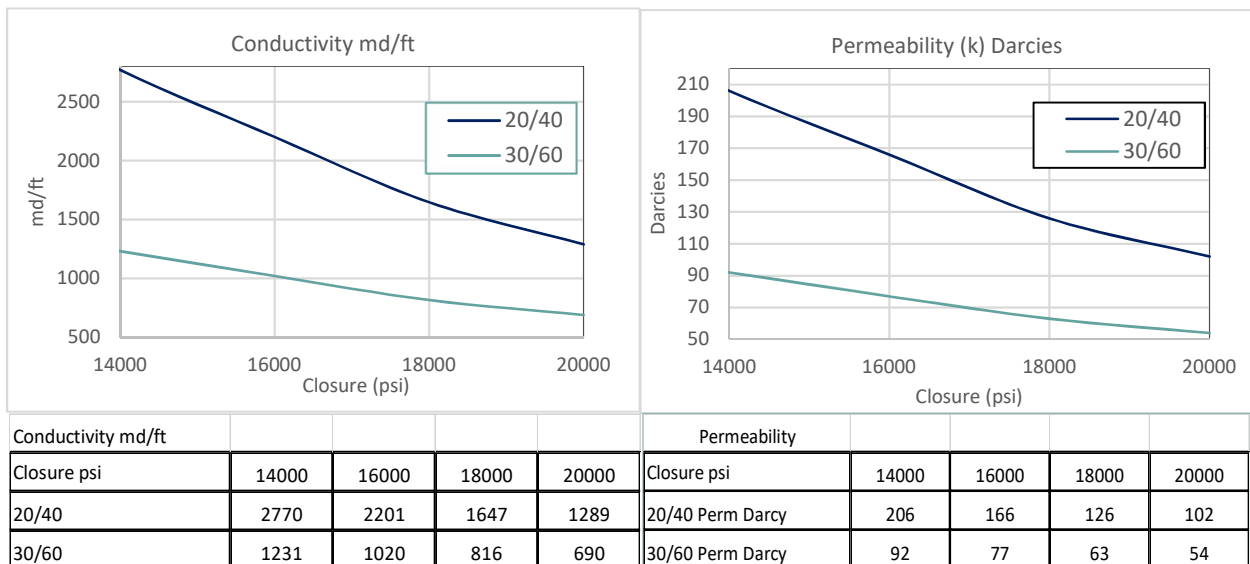


Crush Resistance

UHSP	Closure Stress (psi)			
	12,500	15,000	20,000	25,000
20/40	0.88%	1.96%	4.03%	8.32%
30/60	0.12%	0.46%	1.27%	3.00%

API/ISO crush resistance % fines

Long Term Conductivity and Permeability



Testing performed under the guidelines of ISO 13503-2 and 13503-5

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