Technical Data Sheet

XRT™ Ceramax™ V Proppants

Description

XRT™ Ceramax™ V proppants are a multi-purpose proppant that can be used in a wide variety of field applications. Use of the eXtreme Resin Technology (XRT) system to encase an intermediate density ceramic has yielded a proppant with high conductivity and resistance to cyclic stress.

Typical Applications

Fracture treatments:

- At closure stress up to 14,000 psi [97 MPa]
- At bottom-hole static temperatures of 175 - 450°F [79 - 232°C]
- That require proppant flowback prevention, especially under severe stress cycling
- When wellbore clean-out is a concern

Technical Advantages and Benefits

- Higher conductivity than uncoated ceramics
- Proppant flowback control even under extreme conditions utilizing Stress Bond™ technology
- Superior cyclic stress resistance
- Temperature stability for both extended pumping and storage times
- Increases near wellbore conductivity over uncoated ceramics

Typical Properties

Property	Value	Unit
API Mesh Size	-14+40	
Bulk Density	1.72 [14.4]	g/cm³ [lb/gal]
Color	brown	
Compatibility	Fully compatible with most commonly used fracturing fluids, both water and oil-based systems. Testing with fluids prior to pumping is advised.	
Composition	resin coated ceramic	
Particle Size Distribution	meets or exceeds API RP 19C	
Physical State	solid granule	
Pipe Fill Factor	0.581 [0.0694]	cm³/g [gal/lb]
Resin Type	thermosetting, curable	
Solubility in Water, Brine & HCl	0.0	weight %
Solubility in HCl/HF acid, API RP 19C	≤ 3	weight %
Solubility In Oil	0.0	weight %
Specific gravity	3.01	
Specific Volume	0.332 [0.0398]	cm³/g [gal/lb]

Technical Considerations

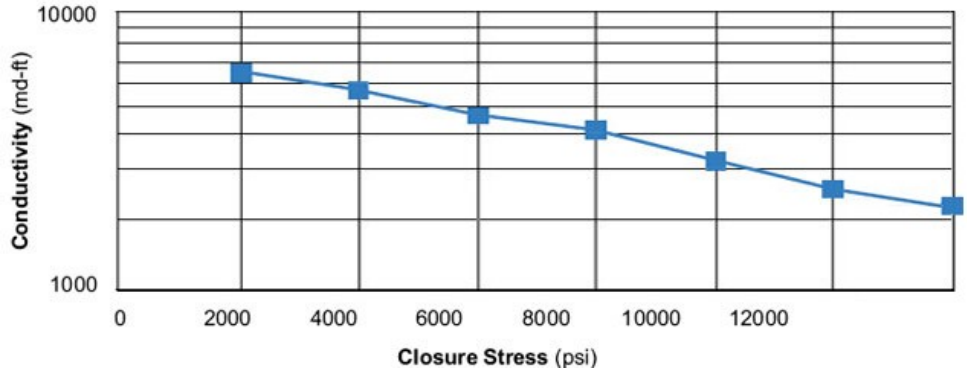
- Grain-to-grain contact must occur and closure stress must be applied during the cure period for proper bonding
- Recommended lower temperature for use is 175°F [79°C]

Long-Term Conductivity

Stim-Lab, Inc. Consortium Long-Term Baseline Procedure

Proppant Concentration: 2 lb_m/ft^2 [9.8 kg/m^2], Temperature: 300°F [149°C]

Closure Stress (psi)	2,000	4,000	6,000	8,000	10,000	12,000	14,000
Size	Conductivity (md-ft)						
-14 +40	6515	5661	4688	4238	3303	2506	1631



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