

# Technical Data Sheet

## XRT™ Ceramax™ E Proppants

### Description



XRT™ Ceramax™ E proppants are a cost effective solution available in a 20/40 mesh size for use in a broad range of field applications. Use of the eXtreme Resin Technology (XRT) system to encase an economy ceramic has yielded a proppant with high fracture flow capacity and resistance to cyclic stress.

### Typical Applications

Fracture treatments:

- At closure stress up to 12,000 psi [83 MPa]
- At bottom-hole static temperatures from 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
- Superior cyclic stress resistance
- Temperature stability for both extended pumping and storage times
- Increases near wellbore conductivity over uncoated ceramics

### Typical Properties

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XRT™ Ceramax™ E Proppants

<https://hexioninternet-hexioninternet-slave.azurewebsites.net/en-US/product/xrt-ceramax-e>

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Property	Value	Unit
API Mesh Size	20/40	
Bulk Density	1.44 [12.0]	g/cm <sup>3</sup> [lb/gal]
Color	yellowish-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	0.694 [0.0833]	cm <sup>3</sup> /g [gal/lb]
Resin Type	thermosetting, curable	
Solubility in Water, Brine & HCl	0.0	weight %
Solubility in HCl/HF acid, API RP 19C	≤ 0.1; / = 3	weight %
Solubility In Oil	0.0	weight %
Specific gravity	2.50	
Specific Volume	0.400 [0.0479]	cm <sup>3</sup> /g [gal/lb]

## Technical Considerations

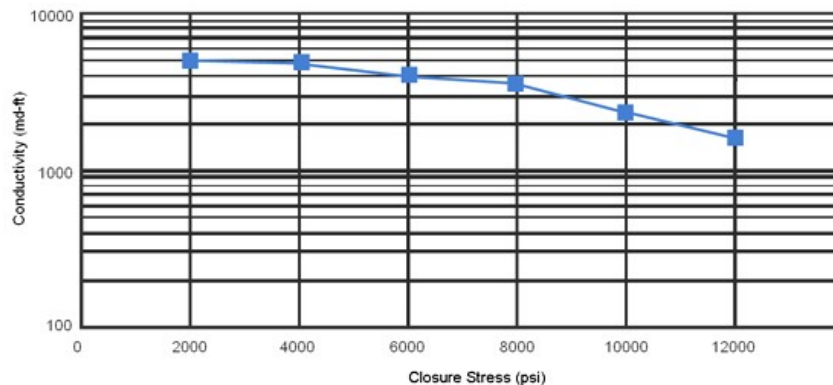
- Grain-to-grain contact must occur and closure stress must be applied during the cure period for proper bonding
- Recommended lower temperature for use is 175°F [79°C]

### Long-Term Conductivity

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

Proppant Concentration: 2 lb<sub>m</sub>/ft<sup>2</sup> [9.8 kg/m<sup>2</sup>], Temperature: 300°F [149°C]

Closure Stress (psi)	2000	4000	6000	8000	10000	12000
Size	Conductivity (mildarcy-foot)					
20/40	5257	4776	4141	3556	2362	1494



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