

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

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 ³ [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 ³ /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 | 2.50 | |
| Specific Volume | 0.400 [0.0479] | cm ³ /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/ft² [9.8 kg/m²], Temperature: 300°F [149°C]



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