

# 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

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XRT™ Ceramax™ V Proppants  
<https://www.hexion.com/en-US/product/xrt-ceramax-v>

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| Property                              | Value  | Unit                           |
|---------------------------------------|--|--------------------------------|
| API Mesh Size                         | -14+40   |                                |
| Bulk Density                          | 1.72 [14.4]  | g/cm <sup>3</sup><br>[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]   | cm <sup>3</sup> /g<br>[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]   | cm <sup>3</sup> /g<br>[gal/lb] |

## Technical Considerations

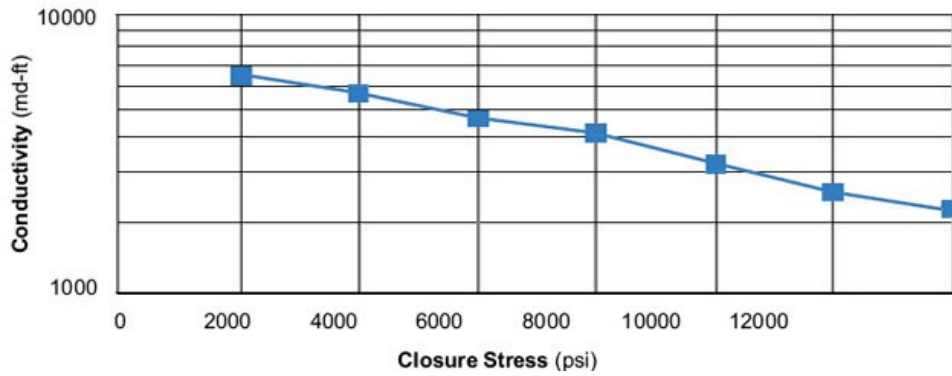
- Grain-to-grain contact must occur and closure stress must be applied during the cure period for proper bonding
- Recommended lower temperature for use is 175°F [79°C]

### 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) | 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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