

Technical Data Sheet

PR6000[™] Proppants

Description



PR6000[™] proppants are precured resin coated sand available in 16/30, 20/40, 30/50, and 40/70 mesh sizes. These proppants are a proven procured premium resin coated sand.

Typical Applications

Fracture treatments:

At closure stress up to:

- 8,000 psi [55 MPa]

Technical Advantages and Benefits

- High conductivity
- Proppant fines reduction
- Reduces respirable silica dust exposure below PEL limits

Typical Properties

PR6000[™] Proppants
<https://www.hexion.com/en-US/product/pr6000>

Generated: January 27, 2022
Issue Date:
Revision: 11/8/2018 12:00:00 AM

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| Property | Value | Unit |
|---------------------------------------|--|--------------------------------|
| Specific Volume | 0.384 [0.0460], 0.386 [0.0463], 0.383 [0.0459], 0.386 [0.0463] | cm ³ /g [gal/lb] |
| API Mesh Size | 16/30, 20/40, 30/50, 40/70 | |
| Bulk Density | 1.60 [13.4], 1.57 [13.1], 1.58 [13.2], 1.43 [11.9] | g/cm ³ [lb/gal] |
| Color | reddish-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, northern white frac sand | |
| Particle Size Distribution | meets or exceeds API RP 19C | |
| Physical State | solid granule | |
| Pipe Fill Factor | 0.624 [0.0748], 0.637 [0.0763], 0.633 [0.0758], 0.699 [0.0838] | cm ³ /g [gal/lb] |
| Resin Type | precured | |
| 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 | 2.60, 2.59, 2.61, 2.59 | |
| Turbidity | < 250 | NTU (FTU) |

Technical Considerations

- Precured resin coated proppants are not designed to prevent flowback of proppants after fracturing. Use Hexion's curable resin coated proppants to prevent proppant flowback.

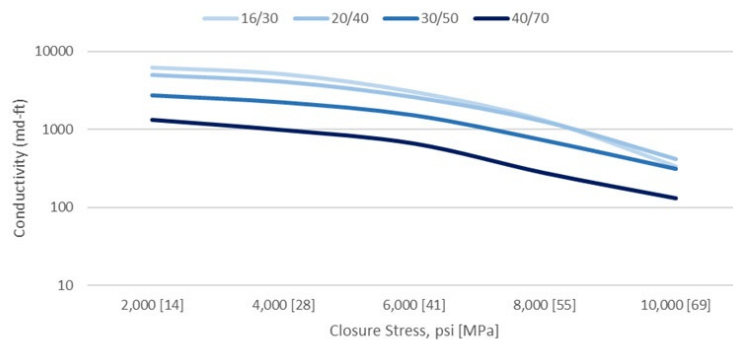
Conductivity

PropTester, Inc. Long-Term Baseline Procedure

Proppant Concentration: 2 lb_m/ft² [9.8 kg/m²], Temp: 250°F [121°C]

| Closure Stress, psi [MPa] | 2,000 [14] | 4,000 [28] | 6,000 [41] | 8,000 [55] | 10,000 [69] |
|---------------------------|------------|------------|------------|------------|-------------|
|---------------------------|------------|------------|------------|------------|-------------|

| Size | Conductivity (md-ft) | | | | |
|-------|----------------------|-------|-------|-------|-----|
| 16/30 | 6,259 | 5,155 | 3,046 | 1,302 | 336 |
| 20/40 | 4,949 | 4,054 | 2,577 | 1,254 | 418 |
| 30/50 | 2,723 | 2,214 | 1,513 | 720 | 312 |
| 40/70 | 1,339 | 991 | 665 | 278 | 132 |



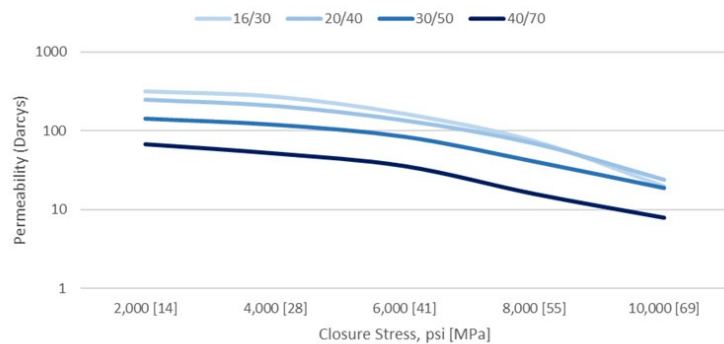
Permeability

PropTester, Inc. Long-Term Baseline Procedure

Proppant Concentration: 2 lb_m/ft² [9.8 kg/m²], Temp: 250°F [121°C]

| Closure Stress, psi [MPa] | 2,000 [14] | 4,000 [28] | 6,000 [41] | 8,000 [55] | 10,000 [69] |
|---------------------------|------------|------------|------------|------------|-------------|
|---------------------------|------------|------------|------------|------------|-------------|

| Size | Permeability (Darcy) | | | | |
|-------|----------------------|-----|-----|----|----|
| 16/30 | 312 | 268 | 163 | 74 | 20 |
| 20/40 | 247 | 206 | 135 | 69 | 24 |
| 30/50 | 142 | 119 | 84 | 41 | 19 |
| 40/70 | 68 | 52 | 36 | 16 | 8 |



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