



**Joint-Stock Company
Borovichi Refractories
(Proppant) Plant**

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BORPROP[®] RCP R1

Technical Data Sheet

Super strength proppant

Borprop 16/20 RCP R1

Physical Properties

| Closure Stress (psi) | 7500 | 10000 | 12500 | 15000 |
|----------------------|------|-------|-------|-------|
| CRUSH RESISTANCE | 3.4% | 4.7% | 9.3% | 11.6% |

| | |
|------------------------------|-------|
| UCS, psi (24 hrs. at 121°C) | 721 |
| Curable resin, % | 66 |
| Bulk Density, g/ccm: | 1.63 |
| Specific Gravity, g/ccm: | 2.89 |
| Sphericity: | 0.9 |
| Roundness: | 0.8 |
| Sieve Analysis (90% 16/20) | 95.9 |
| Mean Size, mm: | 1.040 |
| Acid Solubility, % (by ISO): | 1.6 |
| Turbidity, FTU: | 109 |

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Long-Term Conductivity and Permeability

| Closure Stress (psi) | 2000 | 4000 | 6000 | 8000 | 10000 | 12000 |
|----------------------|-------|-------|------|------|-------|-------|
| Conductivity, Md-Ft | 12784 | 10939 | 8542 | 5559 | 3635 | 2221 |
| Permeability, Darcy | 687 | 603 | 484 | 326 | 219 | 139 |

26th June 2015
Data from FracTech Laboratories