



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

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BORPROP[®] RCP R1

Technical Data Sheet

Resin-coated Ceramic proppant

Borprop 16/30 RCP R1

Physical Properties

Closure Stress (psi)	7500	10000	12500	15000
CRUSH RESISTANCE	0.8%	2.2%	4.6%	9.3%

UCS, psi (24 hrs. at 121°C)	492
Curable resin, %:	79
Loss of Ignition, %:	3.93
Bulk Density, g/ccm:	1.66
Specific Gravity, g/ccm:	2.96
Sphericity:	0.9
Roundness:	0.9
Sieve analysis (90% 12/18)	99.0
Mean Size, mm:	0.929
Acid Solubility, % (by ISO):	1.0
Turbidity, FTU:	95

Long-Term Conductivity and Permeability

Closure Stress (psi)	2000	4000	6000	8000	10000	12000
Conductivity, Md-Ft	8494	6708	5179	3143	1770	974
Permeability, Darcy	475	384	305	191	110	63

9th August 2011
Data from FracTech Laboratories