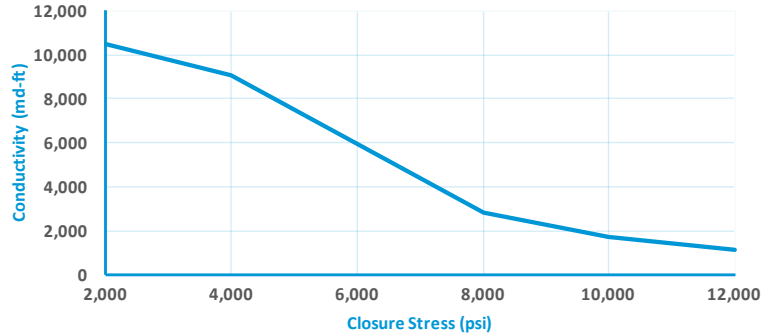




### Reference Conductivity (md-ft), 250°F

Closure Stress (psi)	Conductivity, 2lb/ft <sup>2</sup>
2,000	10,487
4,000	9,101
6,000	5,931
8,000	2,820
10,000	1,708
12,000	1,181

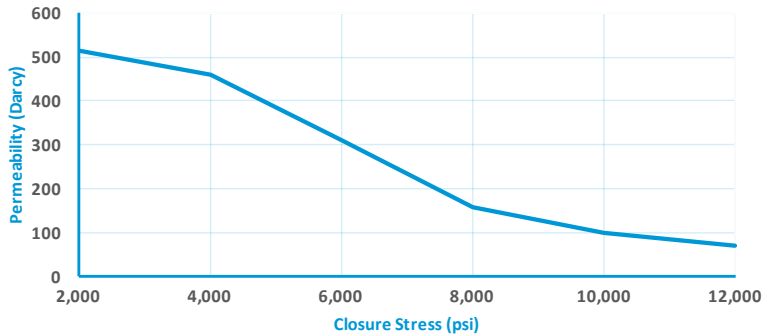
2 lb/ft<sup>2</sup>, 250°F, 2% KCl & Ohio Sandstone



### Reference Permeability (Darcies), 250°F

Closure Stress (psi)	Permeability, 2lb/ft <sup>2</sup>
2,000	514
4,000	459
6,000	310
8,000	158
10,000	101
12,000	72

2 lb/ft<sup>2</sup>, 250°F, 2% KCl & Ohio Sandstone



### Physical Properties

Specific Gravity	2.65		
Bulk Density	1.50 g/cc (93.6 lb/ft <sup>3</sup> )		
Absolute Volume	0.045 gal/lb		
Acid Solubility, %	4.5		
Roundness/Sphericity (Krumbein & Sloss)	0.9/0.9		
Crush Resistance at Stress (%)	3.2 (6,000 psi)	5.1 (8,000 psi)	7.3 (10,000 psi)
Median Particle Diameter	0.74 mm		

All materials are tested in accordance with API RP-19C & D standards.

# VersaLite® 20/40

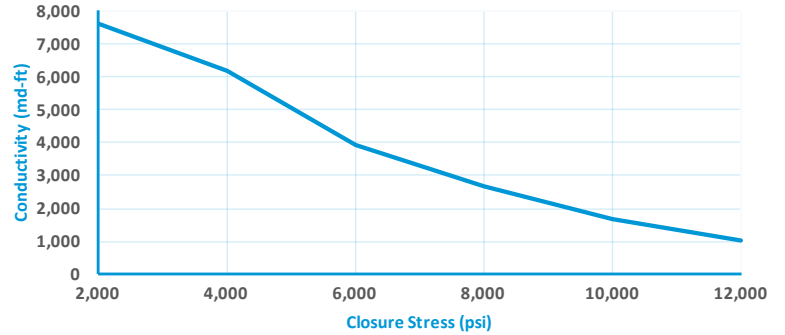
Lightweight Ceramic Proppants Technical Data Sheet



## Reference Conductivity (md-ft), 250°F

Closure Stress (psi)	Conductivity, 2lb/ft <sup>2</sup>
2,000	7,597
4,000	6,168
6,000	3,919
8,000	2,674
10,000	1,680
12,000	1,014

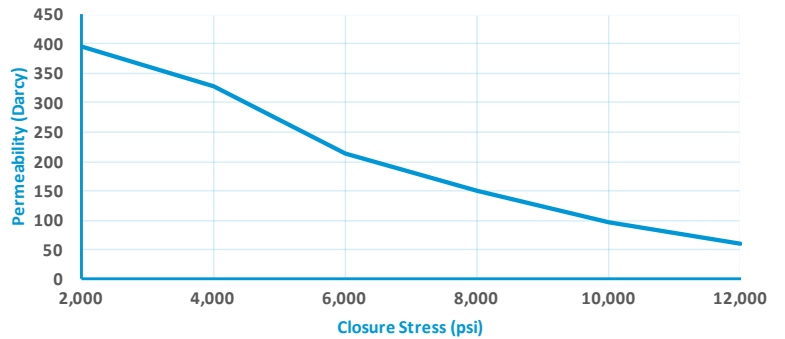
2 lb/ft<sup>2</sup>, 250°F, 2% KCl & Ohio Sandstone



## Reference Permeability (Darcies), 250°F

Closure Stress (psi)	Permeability, 2lb/ft <sup>2</sup>
2,000	396
4,000	327
6,000	214
8,000	150
10,000	96
12,000	60

2 lb/ft<sup>2</sup>, 250°F, 2% KCl & Ohio Sandstone



## Physical Properties

Specific Gravity	2.65		
Bulk Density	1.50 g/cc (93.6 lb/ft <sup>3</sup> )		
Absolute Volume	0.045 gal/lb		
Acid Solubility, %	4.5		
Roundness/Sphericity (Krumbein & Sloss)	0.9/0.9		
Crush Resistance at Stress (%)	3.2 (6,000 psi)	4.9 (8,000 psi)	6.6 (10,000 psi)
Median Particle Diameter	0.71 mm		

All materials are tested in accordance with API RP-19C & D standards.



# VersaLite® 30/50

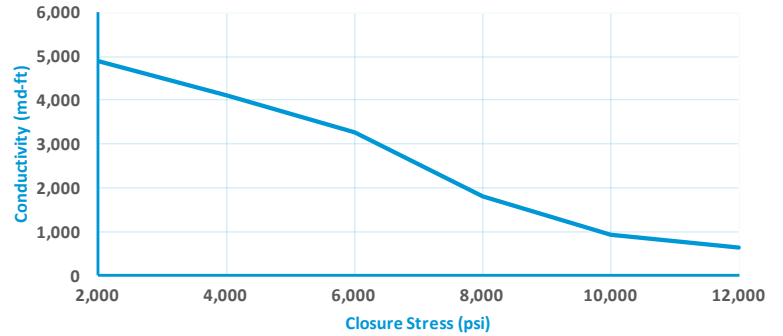
Lightweight Ceramic Proppants Technical Data Sheet



## Reference Conductivity (md-ft), 250°F

Closure Stress (psi)	Conductivity, 2lb/ft <sup>2</sup>
2,000	4,904
4,000	4,108
6,000	3,286
8,000	1,819
10,000	944
12,000	647

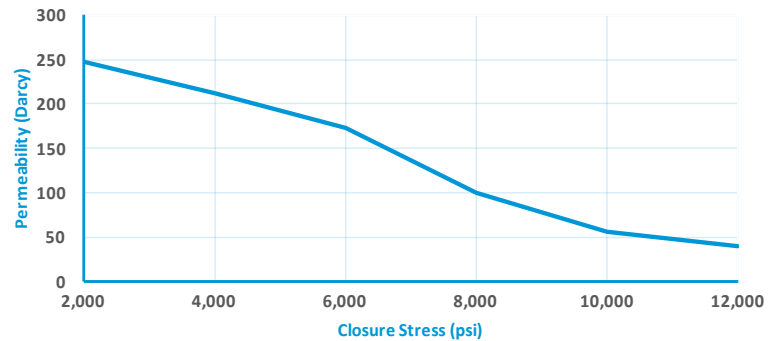
2 lb/ft<sup>2</sup>, 250°F, 2% KCl & Ohio Sandstone



## Reference Permeability (Darcies), 250°F

Closure Stress (psi)	Permeability, 2lb/ft <sup>2</sup>
2,000	248
4,000	212
6,000	174
8,000	101
10,000	57
12,000	41

2 lb/ft<sup>2</sup>, 250°F, 2% KCl & Ohio Sandstone



## Physical Properties

Specific Gravity	2.65		
Bulk Density	1.50 g/cc (93.6 lb/ft <sup>3</sup> )		
Absolute Volume	0.045 gal/lb		
Acid Solubility, %	4.5		
Roundness/Sphericity (Krumbein & Sloss)	0.9/0.9		
Crush Resistance at Stress (%)	1.6 (6,000 psi)	2.6 (8,000 psi)	4.0 (10,000 psi)
Median Particle Diameter	0.47 mm		

All materials are tested in accordance with API RP-19C & D standards.

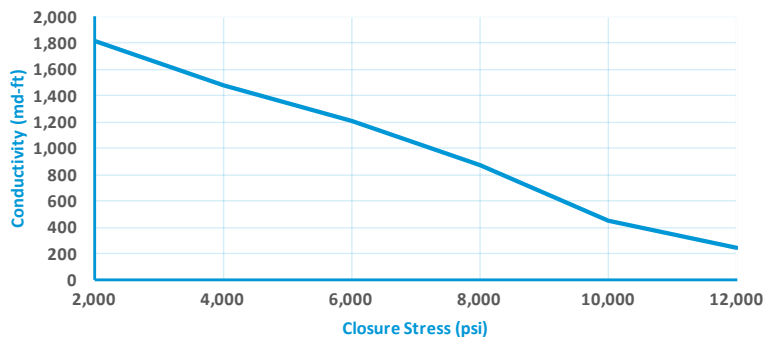




### Reference Conductivity (md-ft), 250°F

Closure Stress (psi)	Conductivity, 2lb/ft <sup>2</sup>
2,000	1,812
4,000	1,483
6,000	1,214
8,000	870
10,000	451
12,000	244

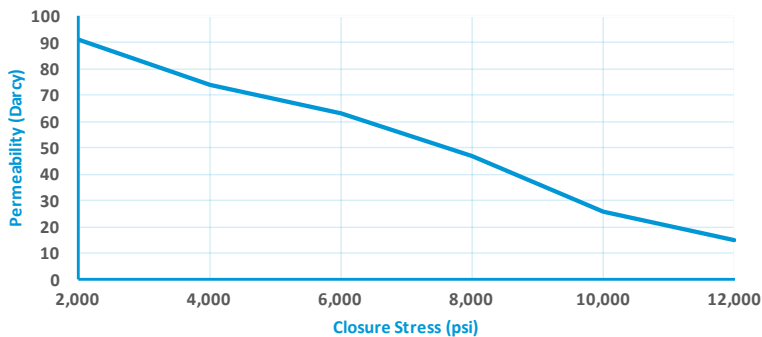
2 lb/ft<sup>2</sup>, 250°F, 2% KCl & Ohio Sandstone



### Reference Permeability (Darcies), 250°F

Closure Stress (psi)	Permeability, 2lb/ft <sup>2</sup>
2,000	91
4,000	74
6,000	63
8,000	47
10,000	26
12,000	15

2 lb/ft<sup>2</sup>, 250°F, 2% KCl & Ohio Sandstone



### Physical Properties

Specific Gravity	2.65		
Bulk Density	1.50 g/cc (93.6 lb/ft <sup>3</sup> )		
Absolute Volume	0.045 gal/lb		
Acid Solubility, %	4.5		
Roundness/Sphericity (Krumbein & Sloss)	0.9/0.9		
Crush Resistance at Stress (%)	1.1 (6,000 psi)	2.1 (8,000 psi)	3.5 (10,000 psi)
Median Particle Diameter	0.33 mm		

All materials are tested in accordance with API RP-19C & D standards.



#### Saint-Gobain Proppants

6105 Cynamide Road  
Benton, AR 72015  
Tel: (479) 782-2001  
Toll Free: (800) 643-2149  
email: [proppants@saint-gobain.com](mailto:proppants@saint-gobain.com)  
[proppants.saint-gobain.com](http://proppants.saint-gobain.com)