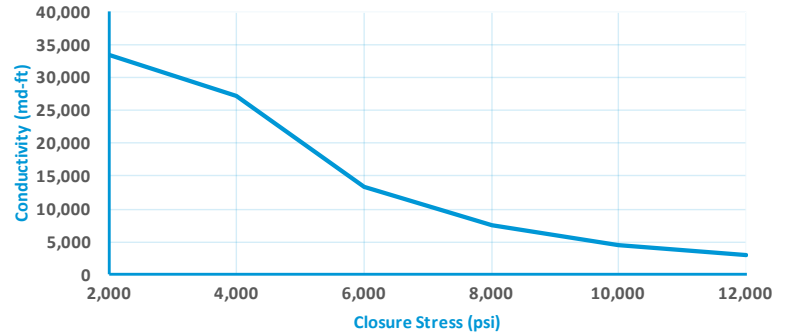




Reference Conductivity (md-ft), 250°F

Closure Stress (psi)	Conductivity, 2lb/ft ²
2,000	33,555
4,000	27,145
6,000	13,350
8,000	7,435
10,000	4,395
12,000	2,975

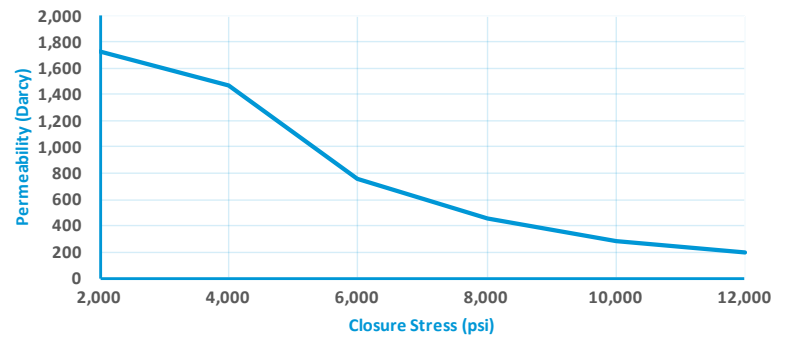
2 lb/ft², 250°F, 2% KCl & Ohio Sandstone



Reference Permeability (Darcies), 250°F

Closure Stress (psi)	Permeability, 2lb/ft ²
2,000	1,730
4,000	1,465
6,000	755
8,000	450
10,000	285
12,000	200

2 lb/ft², 250°F, 2% KCl & Ohio Sandstone



Physical Properties

Specific Gravity	2.85		
Bulk Density	1.60 g/cc (100 lb/ft ³)		
Absolute Volume	0.042 gal/lb		
Acid Solubility, %	6.5		
Roundness/Sphericity (Krumbein & Sloss)	0.9/0.9		
Crush Resistance at Stress (%)	7.0 (6,000 psi)	16.0 (8,000 psi)	20.0 (10,000 psi)
Median Particle Diameter	1.35 mm		

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

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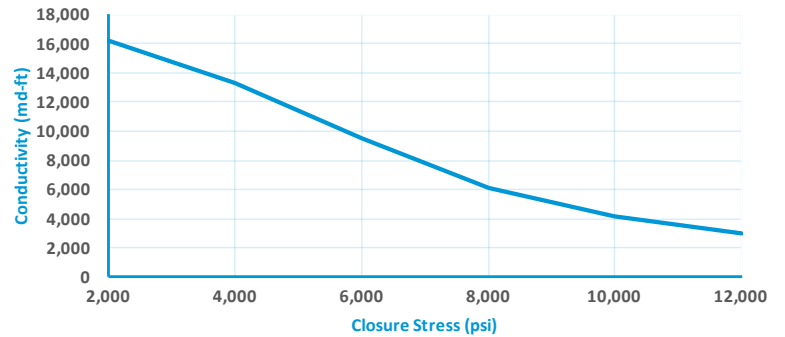
Lightweight Ceramic Proppants Technical Data Sheet



Reference Conductivity (md-ft), 250°F

Closure Stress (psi)	Conductivity, 2lb/ft ²
2,000	16,185
4,000	13,360
6,000	9,555
8,000	6,070
10,000	4,140
12,000	3,005

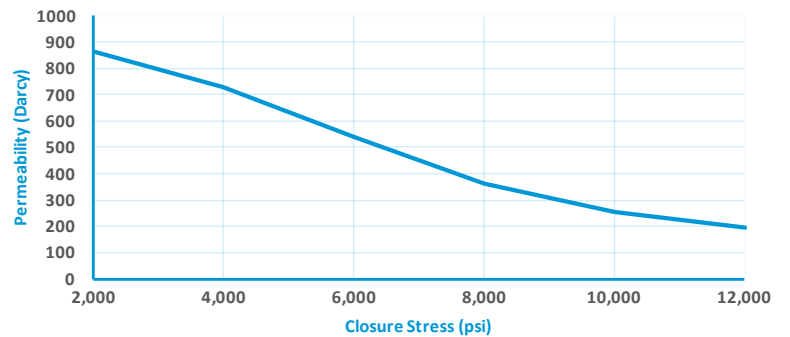
2 lb/ft², 250°F, 2% KCl & Ohio Sandstone



Reference Permeability (Darcies), 250°F

Closure Stress (psi)	Permeability, 2lb/ft ²
2,000	865
4,000	730
6,000	540
8,000	360
10,000	255
12,000	195

2 lb/ft², 250°F, 2% KCl & Ohio Sandstone



Physical Properties

Specific Gravity	2.85		
Bulk Density	1.60 g/cc (100 lb/ft ³)		
Absolute Volume	0.042 gal/lb		
Acid Solubility, %	6.5		
Roundness/Sphericity (Krumbein & Sloss)	0.9/0.9		
Crush Resistance at Stress (%)	2.0 (6,000 psi)	6.0 (8,000 psi)	12.0 (10,000 psi)
Median Particle Diameter	0.95 mm		

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

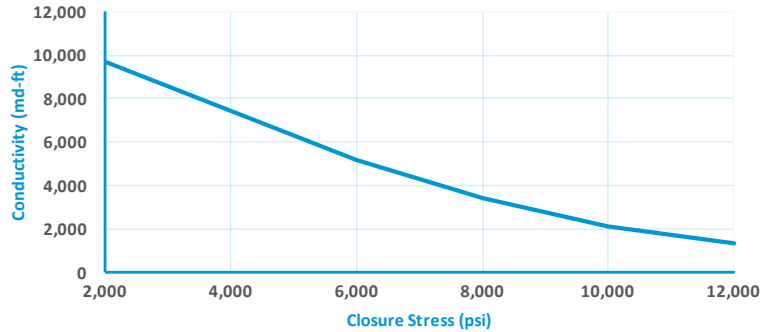




Reference Conductivity (md-ft), 250°F

Closure Stress (psi)	Conductivity, 2lb/ft ²
2,000	9,735
4,000	7,435
6,000	5,190
8,000	3,445
10,000	2,155
12,000	1,365

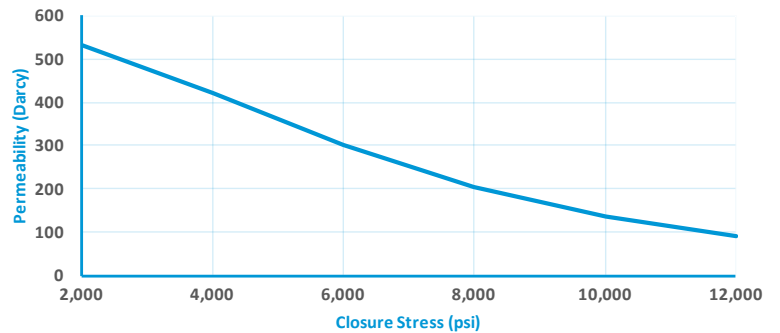
2 lb/ft², 250°F, 2% KCl & Ohio Sandstone



Reference Permeability (Darcies), 250°F

Closure Stress (psi)	Permeability, 2lb/ft ²
2,000	530
4,000	420
6,000	300
8,000	205
10,000	135
12,000	90

2 lb/ft², 250°F, 2% KCl & Ohio Sandstone



Physical Properties

Specific Gravity	2.85		
Bulk Density	1.60 g/cc (100 lb/ft ³)		
Absolute Volume	0.042 gal/lb		
Acid Solubility, %	6.5		
Roundness/Sphericity (Krumbein & Sloss)	0.9/0.9		
Crush Resistance at Stress (%)	1.5 (6,000 psi)	3.0 (8,000 psi)	6.0 (10,000 psi)
Median Particle Diameter	0.74 mm		

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

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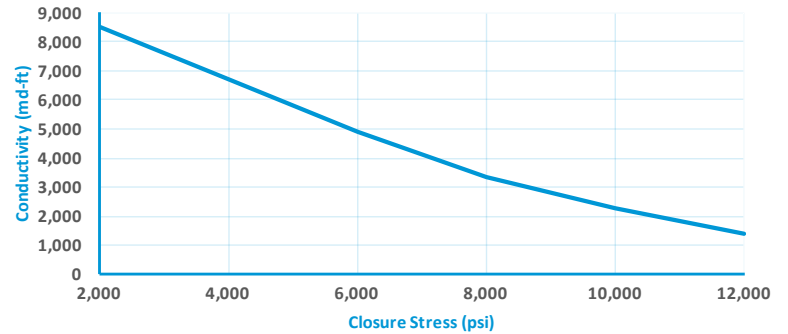
Lightweight Ceramic Proppants Technical Data Sheet



Reference Conductivity (md-ft), 250°F

Closure Stress (psi)	Conductivity, 2lb/ft ²
2,000	8,490
4,000	6,710
6,000	4,925
8,000	3,340
10,000	2,270
12,000	1,410

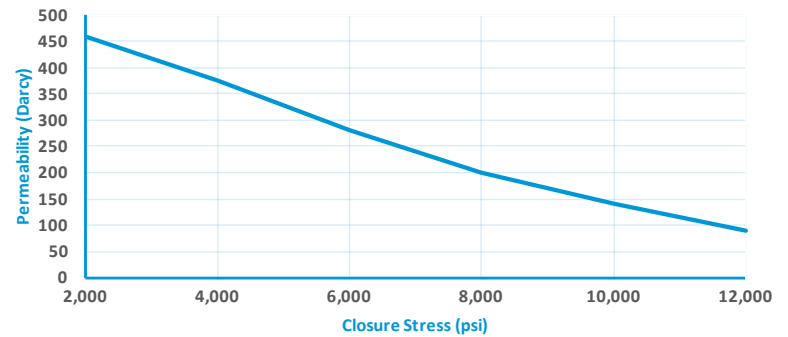
2 lb/ft², 250°F, 2% KCl & Ohio Sandstone



Reference Permeability (Darcies), 250°F

Closure Stress (psi)	Permeability, 2lb/ft ²
2,000	460
4,000	375
6,000	280
8,000	200
10,000	140
12,000	90

2 lb/ft², 250°F, 2% KCl & Ohio Sandstone



Physical Properties

Specific Gravity	2.85		
Bulk Density	1.60 g/cc (100 lb/ft ³)		
Absolute Volume	0.042 gal/lb		
Acid Solubility, %	6.5		
Roundness/Sphericity (Krumbein & Sloss)	0.9/0.9		
Crush Resistance at Stress (%)	1.5 (6,000 psi)	3.0 (8,000 psi)	6.0 (10,000 psi)
Median Particle Diameter	0.71 mm		

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



BauxLite® 30/50

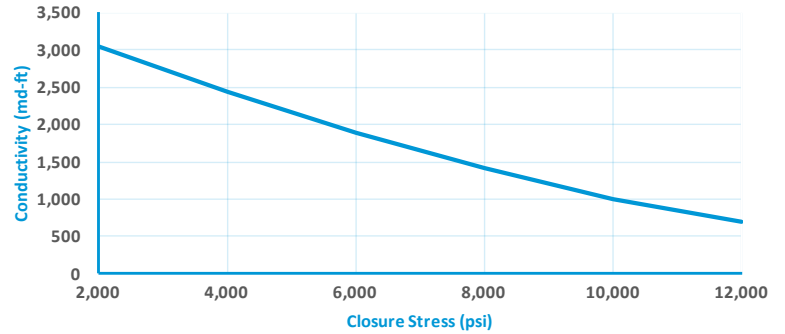
Lightweight Ceramic Proppants Technical Data Sheet



Reference Conductivity (md-ft), 250°F

Closure Stress (psi)	Conductivity, 2lb/ft ²
2,000	3,045
4,000	2,435
6,000	1,890
8,000	1,420
10,000	995
12,000	695

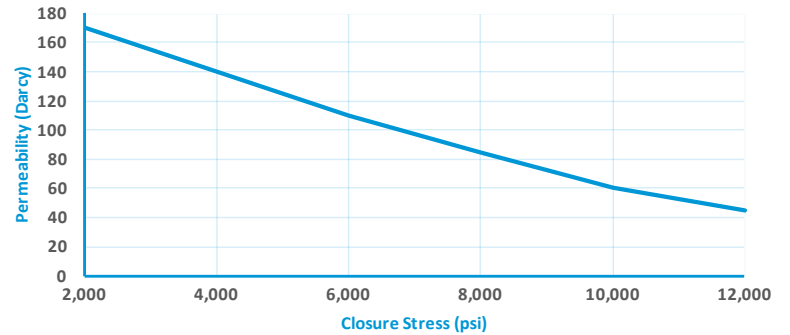
2 lb/ft², 250°F, 2% KCl & Ohio Sandstone



Reference Permeability (Darcies), 250°F

Closure Stress (psi)	Permeability, 2lb/ft ²
2,000	170
4,000	140
6,000	110
8,000	85
10,000	60
12,000	45

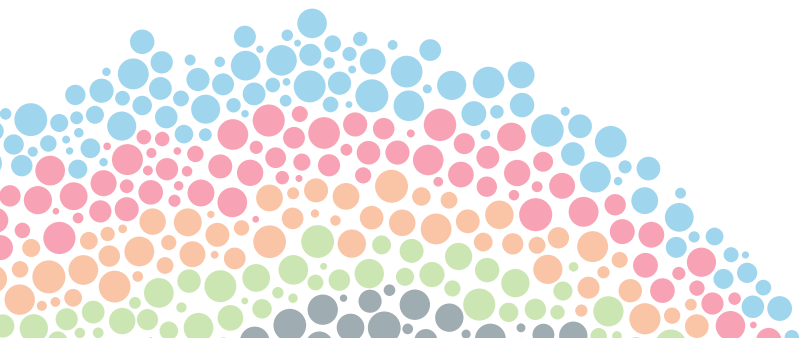
2 lb/ft², 250°F, 2% KCl & Ohio Sandstone



Physical Properties

Specific Gravity	2.85		
Bulk Density	1.60 g/cc (100 lb/ft ³)		
Absolute Volume	0.042 gal/lb		
Acid Solubility, %	6.5		
Roundness/Sphericity (Krumbein & Sloss)	0.9/0.9		
Crush Resistance at Stress (%)	1.0 (6,000 psi)	3.0 (8,000 psi)	5.0 (10,000 psi)
Median Particle Diameter	0.47 mm		

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



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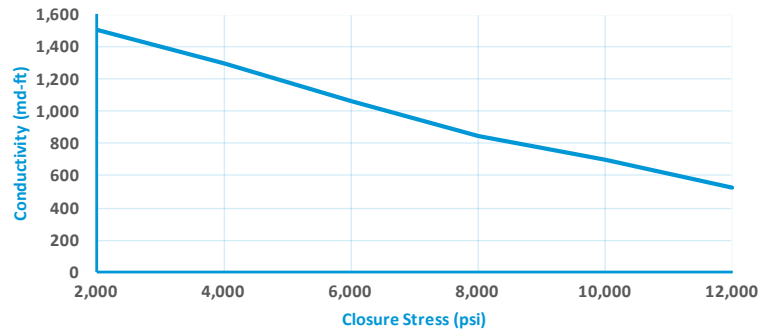
Lightweight Ceramic Proppants Technical Data Sheet



Reference Conductivity (md-ft), 250°F

Closure Stress (psi)	Conductivity, 2lb/ft ²
2,000	1,500
4,000	1,300
6,000	1,060
8,000	845
10,000	700
12,000	525

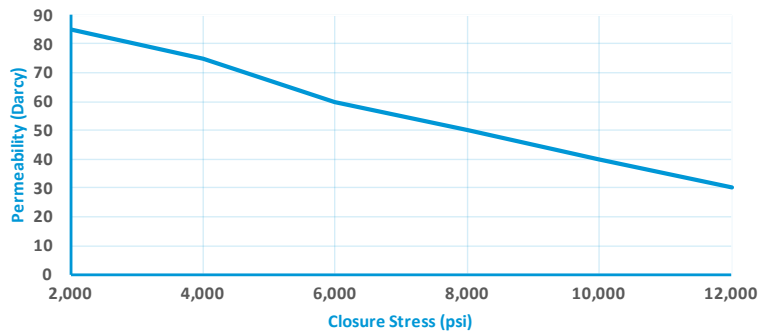
2 lb/ft², 250°F, 2% KCl & Ohio Sandstone



Reference Permeability (Darcies), 250°F

Closure Stress (psi)	Permeability, 2lb/ft ²
2,000	85
4,000	75
6,000	60
8,000	50
10,000	40
12,000	30

2 lb/ft², 250°F, 2% KCl & Ohio Sandstone



Physical Properties

Specific Gravity	2.85		
Bulk Density	1.60 g/cc (100 lb/ft ³)		
Absolute Volume	0.042 gal/lb		
Acid Solubility, %	6.5		
Roundness/Sphericity (Krumbein & Sloss)	0.9/0.9		
Crush Resistance at Stress (%)	1.0 (6,000 psi)	2.0 (8,000 psi)	4.0 (10,000 psi)
Median Particle Diameter	0.33 mm		

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



Saint-Gobain Proppants

Anle Village, Nan Xing Town
Guanghan, Sichuan, China, 618305
Tel: +86 838 550 3611
email: proppants@saint-gobain.com
proppants.saint-gobain.com