



Longchuan Industry District, Yangquan, 045200, P.R. China

CQIsp™ – Technical Specifications

- Manufactured and Delivered by; Changqing Proppant Corporation
- High quality proppant with high flow rates in both initial and post production stages for greater production and less drop-off.
- Field proven, intermediate-strength proppant, used in fields such as the Bakken, and Cooper basin
- Ideal for closure stresses from 8,000 to 12,000 psi
- Available in various sizes: 12/18, 16/30, 20/40, 30/50 and 40/70

Physical Properties		CQIsp™		
USMesh	Weight % Retained			
	12/18	16/30	20/40	
12	0.6			
14	68.8			
16	27.4	0.2		
18	3.1	46.1		
20	0	26.8	0.3	
25		25.9	43.0	
30		1.0	50.7	
35			5.4	
40			0.5	
45			0.1	
50				
60				
70				
100				
% in size	99.3	99.8	99.7	
Median Diameter, mm	1.467	0.961	0.702	
Crush fines (% by weight generated):				
@ 7,500 psi	≤ 10.0	≤ 5.0	≤ 3.0	
@10,000 psi		≤ 10.0	≤ 10.0	
@12,500psi				
@15,000psi				
Sphericity	0.9	0.9	0.9	
Roundness	0.9	0.9	0.8	
Acid Solubility, %	5.8	6.5	6.5	
Bulk Density, g/cc		1.71 – 1.89		
Bulk Density, lb/cuft				
Specific Gravity, g/cc		3.11 – 3.29		
Absolute Volume, gal/lb				
Turbidity, FTU		≤ 100		



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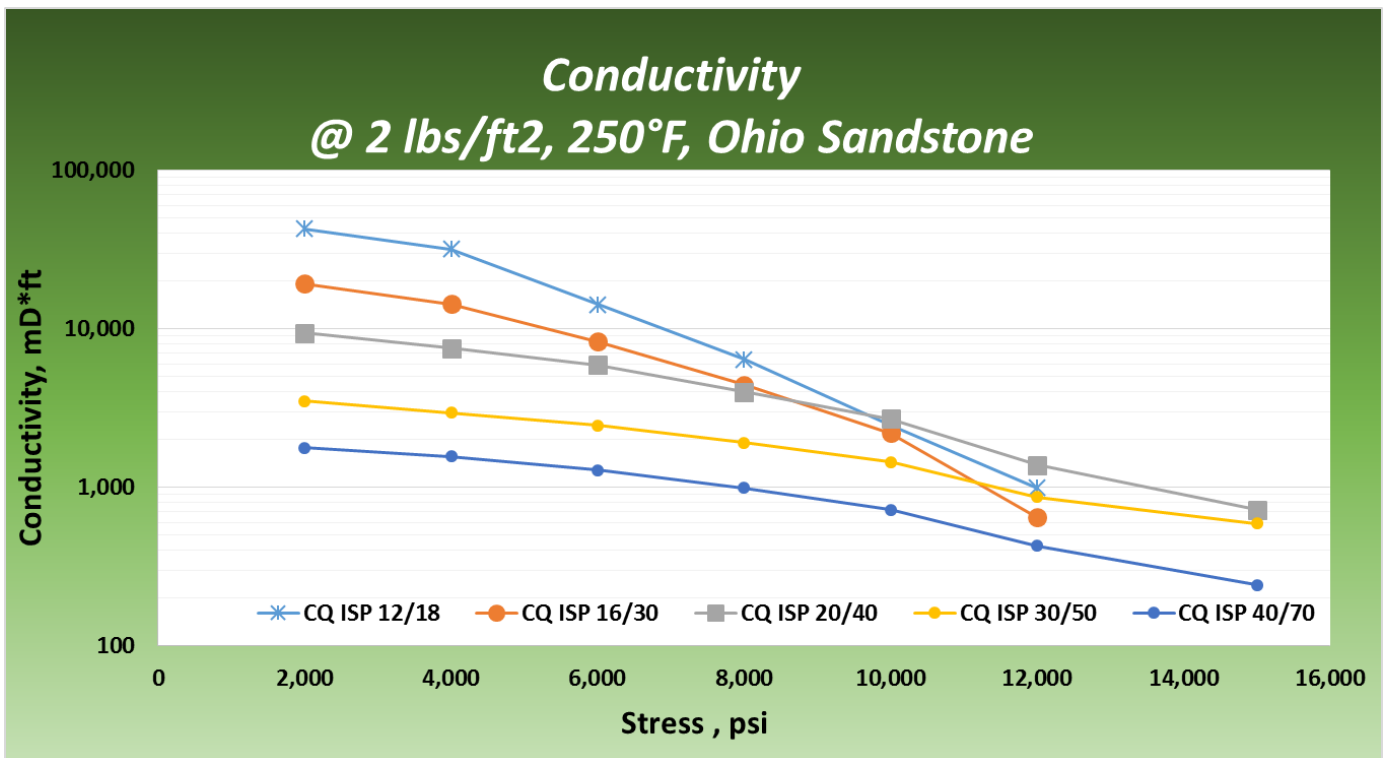
Long-term Conductivity (2 lb/ft², 250°F, with 2% KCl, Between Ohio sandstone)

Conductivity (md-ft):

Closure Stress (psi)	CQ ISP 12/18	CQ ISP 16/30	CQ ISP 20/40	CQ ISP 30/50	CQ ISP 40/70
2,000	42,802	19,208	9,418	3,512	1,772
4,000	31,796	14,291	7,538	2,946	1,562
6,000	14,288	8,333	5,903	2,463	1,284
8,000	6,428	4,447	3,989	1,909	990
10,000	2,481	2,200	2,697	1,440	723
12,000	991	643	1,380	866	426
15,000			720	589	241

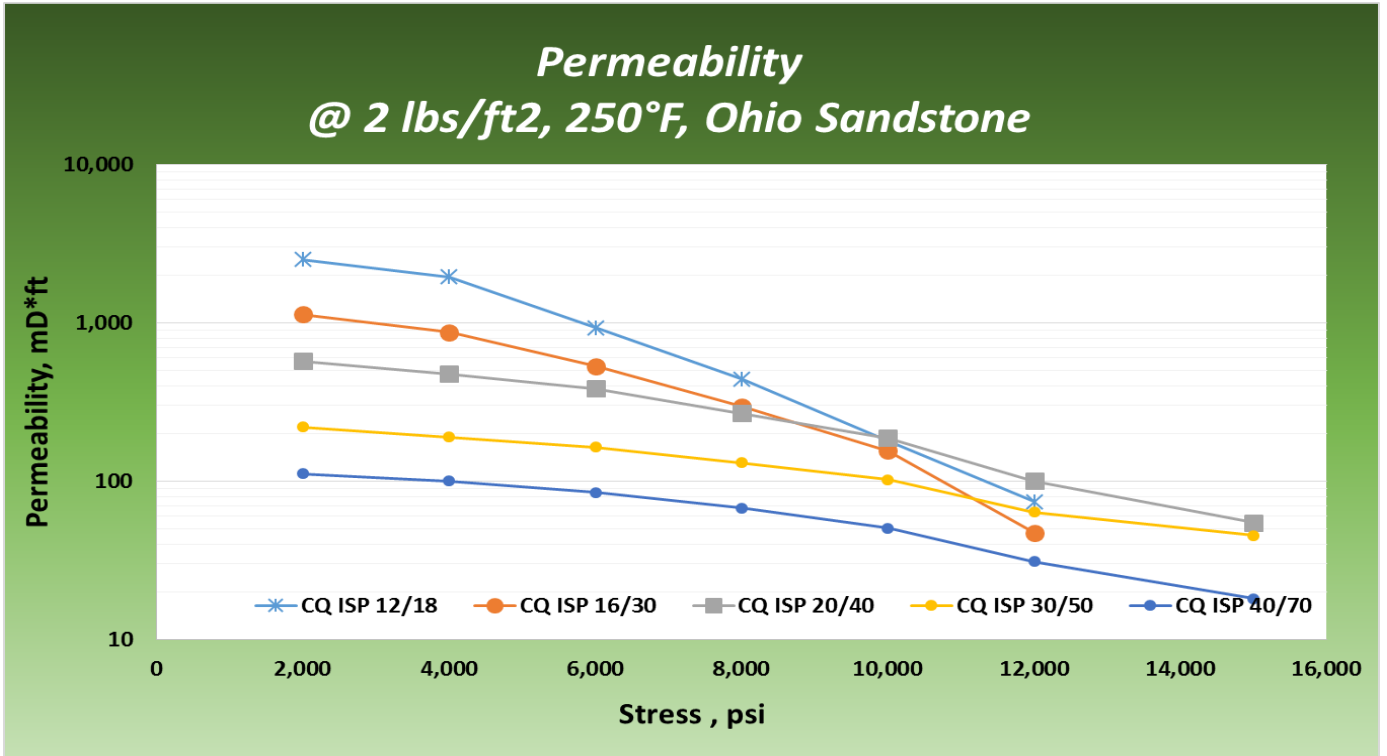
Permeability (Darcies):

Closure Stress (psi)	CQ ISP 12/18	CQ ISP 16/30	CQ ISP 20/40	CQ ISP 30/50	CQ ISP 40/70
2,000	2,514	1,130	572	219	111
4,000	1,954	871	474	190	100
6,000	931	531	384	164	85
8,000	443	297	268	131	67
10,000	179	155	187	102	51
12,000	74	47	100	63.8	31
15,000			55	45	18





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All the above data are typical values obtained according to ISO 13503-2/API RP 19C, and ISO 13503-5. Actual conductivity may vary substantially due to gel damage, fines migration, and other factors.

For more information, please contact us at contact@cqprop.com.