

# BROWNWOOD CLAY HOLDINGS, LLC



2700 Barton Creek Blvd., Ste.230  
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(512) 371-6692  
(512) 727-5979 Fax

## TEXFloat™

- Ultra-light weight performance ceramic proppant
- US Manufactured for a wide range of wells
- High flow capacity for enhanced production rates
- Bulk density and specific gravity similar to sand

## Physical and Chemical Properties

### Sieve Analysis [weight % retained]

U.S. Mesh	Microns	40/80
+40 mesh	+425	3
-40+50 mesh	-425+300	65
-50+80 mesh	-300+180	32

Median Particle Diameter [um] 315

### API Crush Test

% by weight fines generated

	@ 5,000 psi	0.7
	@ 7,500 psi	2.0
	@ 10,000 psi	3.9



40/80

**Sizing Requirements:** A minimum of 90% of the tested sample should fall between the designated sieve sizes. These specifications meet the recommended practices as detailed in ISO 13503-2.

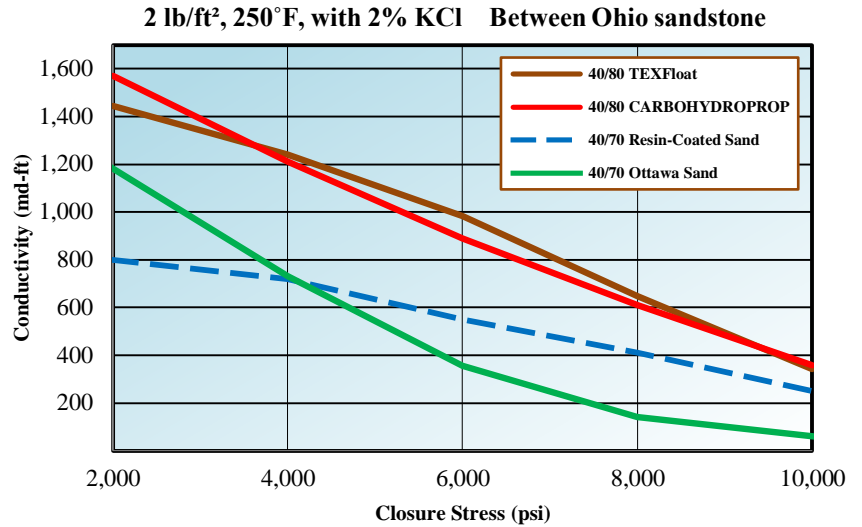
## Typical Additional Properties

Roundness	0.9
Sphericity	0.9
Bulk Density [lb/ft <sup>3</sup> ]	90
[g/cm <sup>3</sup> ]	1.46
Apparent Specific Gravity	2.55
Absolute Volume [gal/lb]	0.054
Solubility in 12/3 HCl/HF Acid [% weight loss]	4.8

## Long-Term Conductivity

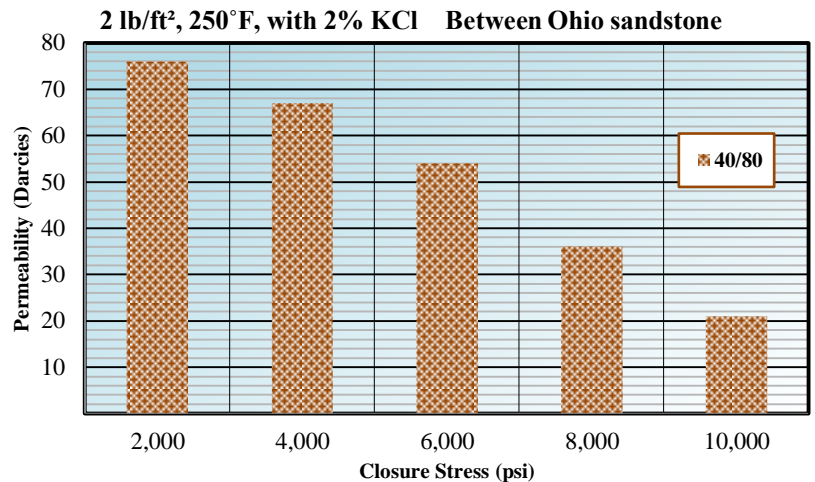
### Reference Conductivity (md-ft @ 250°F)

Closure Stress [psi]	2 lb/ft <sup>2</sup> 40/80
2,000	1444
4,000	1241
6,000	982
8,000	647
10,000	342



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

Closure Stress [psi]	2 lb/ft <sup>2</sup> 40/80
2,000	76
4,000	67
6,000	54
8,000	36
10,000	21



\* Reference conductivity and permeability are measured with a single phase fluid under laminar flow conditions in accordance with ISO 13503-5. In an actual fracture, the effective conductivity will be much lower due to non-Darcy and multiphase flow effects.



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