

**PERFORMANCE SERIES  
Thermiculite® 715  
Coreless Sheet**



Flexitallic US, LLC  
6915 Highway 225  
Deer Park, TX 77356 USA  
+1 281 604.2400

Flexitallic UK, Ltd.  
Scandinavia Mills  
Hunsworth Lane  
Cleckheaton, BD19 4LN UK  
+44 1274 851273

[www.flexitallic.com](http://www.flexitallic.com)

**Sheet Material properties and test data**

Property	Value
Thickness (in.)	1/16
Density (lb/ft <sup>3</sup> )	112
ASTM F36 Compressibility (%)	10
ASTM F36 Recovery (%)	>45
BS 7531 Residual Stress @ 570°F (psi)	3630
BS7531 Gas Permeability (mL/min)	<1.0
ASTM F152 Tensile Strength (psi)	1595
ASTM F146 Thickness Increase IRM 903 (%)	1.4
ASTM F146 Thickness Increase Fuel B (%)	0.2
ASTM F146 Weight Increase IRM 903 (%)	17.7
ASTM F146 Weight Increase Fuel B (%)	11.3
ASTM F38 B Creep Relaxation 1/32 in. (%)	21
ASTM F37 Liquid Leakage (mL/hr) Fuel A at 10 psi; Gasket Stress 1000 psi	0.55

**Thermiculite®**

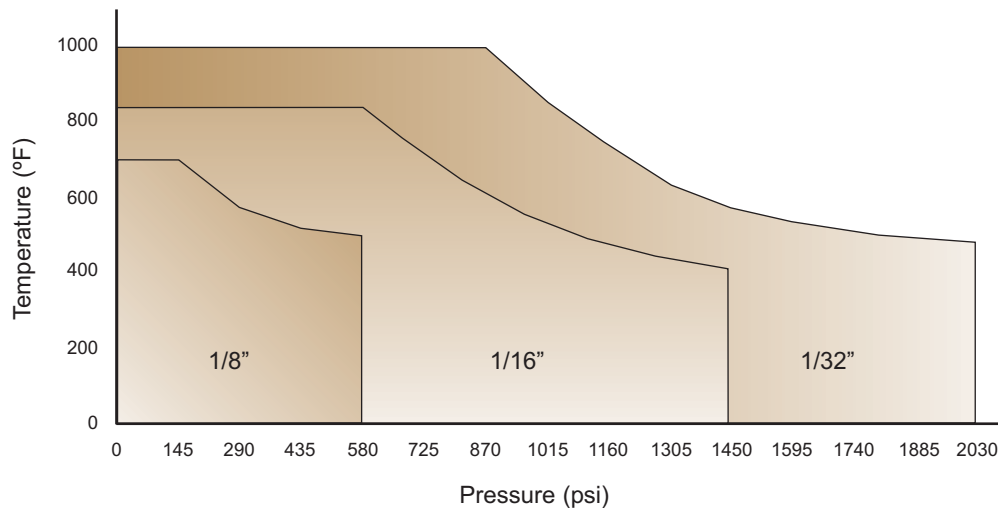
INNOVATIVE. VERSATILE. COMPLETE.



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material for replacement of compressed  
fiber and graphite sheet products.

**Thermiculite 715 Pressure/Temperature  
Service Envelope**

- These temperature and pressure guides cannot necessarily be used simultaneously and may not apply at all thicknesses.
- The maximum continuous service temperature for 1/16 in. thick Thermiculite 715 is 850°F (454°C)



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**ROTT tests on Thermiculite®  
715 Sheet Gasket, 124 x 149 x 1.7 mm**

Gb	1,031
a	0.243
Gs	9.68
T <sub>p</sub> MIN	456
T <sub>p</sub> MAX	92,899
S <sub>100</sub>	3,158
S <sub>1000</sub>	5,529
S <sub>3000</sub>	7,222
S <sub>10000</sub>	9,678

**Design Properties**

m	3.2
y	4,200 psi

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