

Working Temperature Range			
Oxidizing Atmosphere (such as air)	-240 °C	to	510 °C
Mild Oxidizing Atmosphere of most gasket applications	-240 °C	to	850 °C
Non-Oxidizing Atmosphere	-240 °C	to	3000 °C



Graphoil Ribbon

Product Description

Graphoil ribbon is slit and corrugated (crinkled) from industrial-grade GR99 graphite material. Most flexible graphites have a carbon content of 95%–98%. We provide a high purity content of 99% carbon. This allows for better chemical resistance, thermal conductivity, and sealing. Graphoil ribbon can be used as a valve stem package, gasket, or seal. It can also be used to make die-formed rings. Standard tapes are supplied without special treatments.

We offer graphite crinkle ribbon in standard thicknesses of 0.015" by 50' lengths. The available widths are 1/2" and 3/4".

Properties	Value
<b>Thermal Conductivity</b>	
Parallel to Sheet Surface, BTU. in/ft	960
Through Thickness, BTU. in/ft	36
Coefficient of Friction (Against Steel), psi (Mpa)	0.018 @ 4 (0.03)
Coefficient of Friction (Against Steel), psi (Mpa)	0.157 @ 12 (0.08)
Compressibility (ASTM F-36), %	44
Recovery (ASTM F-36), %	15
Creep Relaxation (ASTM F-38), %	Less than 5
Sealability (ASTM F-37), fluid ounce/hr (ml/hr)	0.017 (0.5)

Technical Data	Value
Bulk Density, lbs/cu.ft. (g/cc)	70 (1.1)
Tensile Strength, psi (Mpa)	650 (4.4)
Carbon Content, %	99 (min)
Ash Content, %	1 (max)
Sulfur Content, ppm	900 (max)
Leachable Chloride Content, ppm	50 (ax)

Part Numbers:



Example: PKG 0500GRARIBBON – 1/2" wide, Crinkled, Graphoil Ribbon