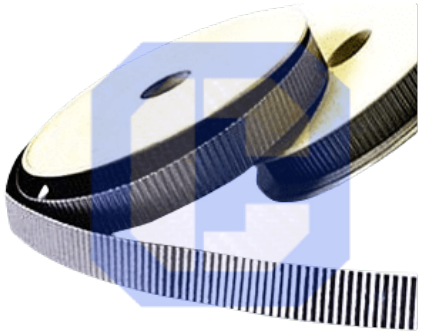
TECHNICAL DATA SHEET

Graphite Foil Crinkle Cut Tape

DESCRIPTION:
This tape is slit and corrugated from standard purity graphite foil. 99% graphite carbon with no filler or binder. The tape is offered with an adhesive back (2020-ZH) and without (2020-Z). Special treatments for corrosion and oxidation resistance are available upon request.



2020-Z Crinkled Tape, No adhesive:
Split and corrugated from high purity flexible graphite foil, 99% Special treatments for corrosion & oxidation resistance available upon request

2020-ZH Crinkled Tape with adhesive back:
Split and corrugated from high purity flexible graphite foil, 99% pressure sensitive adhesive(PSA) is applied on one side of the tape as self adhesive backing.

Benefits

- Compressible
- Conformable
- Low Creep Relaxation
- Thermally and Electrically Conductive
- Heat, Fire, and Chemical Resistant.
- Compatible with most chemicals

Typical Applications

- 2020-Z is the material used for making
- die-formed graphite rings.
- 2020-ZH is used as form-in-place
  - gaskets
  - valve stem packing
  - thread seal
  - or other irregular gasket/seal shapes

Technical Specifications Board

Temperature Ratings:			
Type	Unit	Crinkled Tape No Adhesive	Crinkled Tape W/Adhesive
Oxidizing Atmosphere	°F °C	-400°F to 950°F -240°C to 510°C	-400°F to 950°F -240°C to 510°C
Mild Oxidizing Atmosphere	°F °C	-400°F to 1500°F -240°C to 850°C	-400°F to 1500°F -240°C to 850°C
Non-Oxidizing Atmosphere	°F °C	-400°F to 5400°F -240°C to 3000°C	-400°F to 5400°F -240°C to 3000°C

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Graphite Foil Crinkle Cut Tape

Typical Physical Properties			
Type	Unit	Crinkled Tape No Adhesive	Crinkled Tape W/Adhesive
Bulk Density	lb/cu.ft.	70	70
Bulk Density	g/cc	1.1	1.1
Tensile Strength	psi	650	650
Tensile Strength	Mpa	4.4	4.4
Carbon Content	%	99 Min	99 Min
Ash Content	%	1 Max	1 Max
Sulfur Content	ppm	900	900
Leachable Chloride	ppm	50	50
Compressibility (ASTM F-36)	%	44	44
Recovery (ASTM F36)	%	15	15
Creep Relaxation (ASTM F-38)	%	<5	<5
Sealability (ASTM F-37)	Fluid Ounce/hr ml/hr	0.017 0.5	0.017 0.5

Thermal Conductivit			
Type	Unit	Crinkled Tape No Adhesive	Crinkled Tape W/Adhesive
Parallel to Sheet Surface	BTU-in/ft2.h.F W/m.K	960 140	960 140
Through Thickness	BTU-in/ft2.h.F W/m.K	36 5	36 5
Coefficient of Friction	psi Mpa	0.018 @ 4 psi 0.03 Mpa	0.157 @ 12 psi 0.08 Mpa

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