

Gee Graphite Data Sheet



Geegraf Foil

A flexible graphite foil manufactured from expanded natural graphite without adhesives or binders

Geegraf flexible graphite foil is homogeneous high purity graphite, containing no binders or adhesives providing a resilient and compressible sealing material.

Features

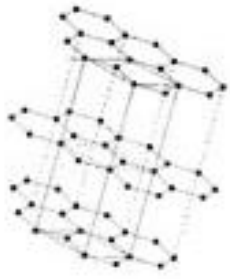
- Flexible and soft, yet highly impermeable to gases & liquids.
- Exfoliated and calendered graphite foil.
- Standard Carbon content 99% minimum.
- Homogeneous foils in a thickness range from 0.2mm to 2.0mm in a standard width of 1000mm.
- Available in a standard density 1.0 g /cc.
- Suitable for a broad range of temperatures from - 200°C to + 2800°C in inert or reducing conditions.
- Temperatures in oxidizing conditions -200°C to + 500°C.
- Can be used at cryogenic temperatures.
- High thermal shock resistance & high electrical conductivity.
- Resistant to radiation.

Specifications

- Standard Carbon content 99% minimum.
- Density 1.0 g /cc standard.
- Temperature Range
 - 200°C to + 2800°C in inert or reducing conditions.
 - 200°C to + 500°C in oxidizing conditions
- Tensile strength > 5.2Mpa
- Leachable Chloride & Fluoride 50ppm maximum.
- Compressibility 47%
- Recovery 9%
- Electrical Resistivity
 - 900 x 10⁻⁶ ohm cm parallel to surface
 - 250,000 x 10⁻⁶ ohm cm perpendicular to surface.
- Thermal Conductivity
 - 120 kcal/m. Hr. °c perpendicular to surface.
 - 4 kcal / m. Hr. °C perpendicular to surface.
- Coefficient of Thermal expansion
 - 2 x 10⁻⁶ / °C parallel to surface.
 - 5 x 10⁻⁶ / °C perpendicular to surface

Typical Chemical Analysis.

- Ash Content < 1.0%
- Sulphur content < 1300ppm
- Chloride content 50 ppm maximum.



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Availability

Code	Thickness mm	Density g/cc	Width mm	Weight kg	Length m
F20110	0.2	1.0	1000	20	100
F35110	0.35	1.0	1000	35	100
F50110	0.5	1.0	1000	35	70
F75110	0.75	1.0	1000	37.5	50
F100110	1.0	1.0	1000	50	50
F150110	1.5	1.0	1000	1.5	1
F200110	2.0	1.0	1000	2.0	1
F2001510	2.0	1.0	1500	3.0	1

- Thickness range 0.2mm to 2.0mm
- Roll width 1000mm standard. 1500mm to special order.