



Gee Graphite Data Sheet



Geegraf Graphite Die Formed Rings

Geegraf die formed / moulded graphite rings are manufactured from an extensive range of existing tooling. New tooling provided to customer specific requirement supplied on short lead times, normally in a range of densities from 1.2 g /cc to 1.8 g /cc with Carbon content ranging from 99% to 99.85% Corrosion and oxidation resistant grades and PTFE impregnated grades also supplied.

Features

- Flexible and highly impermeable to gases and liquids.
- Contains no adhesives or binders and has self lubricating properties and is therefore virtually maintenance free.
- Grades offer Oxidation, Corrosion resistant, and PTFE impregnated grades excellent sealability and coefficient of friction.
- Very good chemical resistance.
- Minimum leakage rates - with certain grades meeting TA Luft and Clean Air regulations.
- High thermal conductivity.
- Die Formed Rings - supplied in a density range of 1.2 g/cc to 1.8 g/cc.
- Available in 99% and 99.85% purities - Corrosion inhibited, oxidation resistant and PTFE impregnated grades.
- Supplied endless, split or as matched halves or as Expanded Braided Graphite Rings. (Geegraf BGPR).
- Metal tipped graphite moulded rings to customer drawings are available for high pressure / anti extrusion applications.
- Graphite packing sleeves with or without stainless steel eyelets are available in sizes AB10 to AB50.

Specifications

Standard Carbon Content :	99%
Density Range :	1.2g/cc to 1.8g/cc.
Temperature :	-200°C to + 2,800°C in inert or reducing conditions. -200°C to + 500°C in oxidising conditions.
Tensile strength :	ASTM F152 >5.2Mpa (Figures apply Geegraf foil only)
Compressibility :	47% (Figures apply Geegraf foil only)
Recovery :	ASTM F36/A >9% (Figures apply Geegraf foil only)

Typical Chemical Composition

Chloride content :	50 ppm maximum.
Suphur content :	1300 ppm
Fluoride content :	< 30 ppm
Ash content :	< 1.0 %