



MATERIALS REFRACTORY MATERIALS

• Graphite & PG Parts..... F 08

Graphite & PG Parts

Graphite is a mineral of extremes. It is extremely soft, cleaves with very light pressure, and has a very low specific gravity. In contrast, it is extremely resistant to heat and nearly inert in contact with almost any other material. These extreme properties give it a wide range of uses in metallurgy and manufacturing.

TYPES OF PRODUCTS

- Wire
- Powders
- Tube & rod
- Foil/Sheet/Plate
- Target

- Crucible
- Heater
- Composite parts
- All parts according specific drawings

STANDARD SPECIFICATIONS

	GRAPHITE
	С
Colour	Black
	MECANICAL PROPERTIES
Hardness (Mohs)	0.1 - 1.5
Young Modulus (GPa)	4.8
Max use temperature (°C) in air	3650
Melting Point (°C)	-
Density (g/cm³)	1.6 - 1.75
Flexural strength, 3 points (MPa) at 20°C	50
Compressive strength (MPa) at 20°C	96
	ELECTRICAL PROPERTIES
Electrical resistivity (Ω.cm) at 20°C	7.10 ⁻³
Dielectric strength (kV/mm)	-
	THERMAL PROPERTIES
Thermal conductivity (W/m ⁻¹ .K ⁻¹) at 20°C	24
Linear expansion (x10 ⁻⁶ /K) 20°C to 1000°C	8.4

POSSIBLE COATING:

- Pyrolitic
- SiC
- Si_3N_4







neyco

30 avenue de la Paix 92170 Vanves - France Tel: +33(0)1 41 90 50 50 Fax: +33(0)1 41 90 50 51

www.neyco.fr





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