

Molded Graphite (M Series)

Features:

High density / fine grain size / High purity / High strength / Low specific resistance / ease of precision machining /
Excellent thermal shock resistance/ Good oxidation & corrosion resistance

Applications:

Semiconductor (Monocrystalline Silicon) / Vacuum furnace / Continuous casting / Sealing products / Space & medical industry / Forge moulds EDM / Heat shields /Electronic tube anodes / Melting and sintering molds for ceramaic, electronic products, cemented carbides, non-ferrous & other metals/ etc.

MOLDED		M 1	M 2
Bulk Density	(g/cc)	1.78-1.80	1.85-1.88
Ash Content	(ppm)	500-1000	500-1000
Shore Hardness	(Ra)	40	45
E Resistivity	($\mu\Omega\cdot m$)	≤ 12	≤ 12
Flex Strength	(MPa)	30--35	35—45
Compressive Strength	(MPa)	50--55	60—82
Max Grain Size	(μm)	43 μm	43 μm
CTE	(cm/cm- $^{\circ}K$)	4.5×10^{-6}	4.5×10^{-6}

Notes:

- Ash content of all grades can be purified to 50 PPM.
- Special property requirement specially produced.
- Density, mechanical strength and anticorrosion can be improved by further impregnation.

Size Capabilities:

Rods	Diameter	Length
Size Range	0-1300mm	0-2000mm
Standard Size	110-500mm	180-400mm

Blocks	Length	Width	Thickness
Size Range	0-900 mm	0-400 mm	0-320 mm
Standard Size	200-900 mm	125-400 mm	53-320 mm

Notes:

- Larger size specially pressed.
- Machined parts done to drawings
- Anticorrosion cover available(SiC Cover, Pitch Cover, etc)

