

Isostatic Pressed Graphite (IFS Series)

Features:

Cold isostatic pressed / Large sizes available / High density / Fine grain size / High purity / High strength / Low specific resistance / Ease of precise machining / Excellent thermal shock & oxidation resistance/ Good corrosion resistance

Applications:

Semiconductor (Monocrystalline Silicon) / Vacuum furnace fixturing / Continuous casting / Sealing Products / Medical industry / Forge molds / EDM fixturing / Heat shields / Melting and sintering molds for ceramics, electronic products, cemented carbides & precious metals, etc.

ISOSTATIC		IFS-1	IFS-2	IFS-3	IFS-3	IFS-5
Bulk Density	(g/cc)	1.84	1.85	1.80	1.75	1.70
Ash	(ppm)	500-1000	500-1000	500-1000	500-1000	500-1000
Grain Size	(μm)	40	25	25	25	25
Specific Resistance	($\text{M}\omega\cdot\text{m}$)	8-9	11~13	11~13	15 max	15 max
Compressive Strength	(Mpa)	75	80	75	55	45
Flexible Strength	(Mpa)	39	40	37	25	23
Shore Hardness	(Ra)	50	55	50	50	45
C.T.E	($\text{cm}/\text{cm}\cdot^{\circ}\text{K}$)	3.7	4.5	4.4	4.0	3.8
Young Mod	(Gpa)	10.65	11.5	10	10.5	9.5

Notes:

- Ash content of all grades can be purified to 50 PPM.
- Special property requirement specially produced.

Size Capability:

Rods	Diameter	Length
Size Ranges	0-630mm	0-1500mm
Standard Sizes	100/200/300/400/500mm	300/400/500/600mm



Blocks	Length	Width	Thickness
Size Ranges	0-1500 mm	0-600 mm	0-400 mm
Standard Sizes	400/500/600/1000 mm	400/500mm	200/300/400/500/600 mm

Size Notes;

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