

Graphite Platform & Grade Comparison Sheet

One-page summary of all four graphite platforms and ten certified grades manufactured by Oriental Graphicarb Manufactory. Full per-grade datasheets are available on request or from each grade's page.

Isostatic Graphite

Finest grain (10-12 micron), highest strength & density, ultra-low ash. Best for EDM electrodes, casting dies, semiconductor components.

Grade	Density (g/cm3)	Resistivity	Thermal Cond. (W/m.k)	Application
OCHD-E1	1.87	12.5	85	EDM / Heat Exchanger / All kinds of Machining
OCHD-E2	1.85	11.5	85	EDM / Sintering / All kinds of Machining
OCHD-E3	1.85	8.5	140	Continuous Casting Dies

Molded Graphite

High mechanical strength, complex shape capability, excellent machinability and chemical resistance.

Grade	Density (g/cm3)	Resistivity	Thermal Cond. (W/m.k)	Application
OMGB-A	1.80	8-11	121.1	Sintering / All kinds of Machining
OMGB-B	1.85	8-10	139.2	Sintering / All kinds of Machining

Extruded Graphite

Ideal for rods, tubes and bars. Fine grain, good machinability, consistent mechanical properties. Available with our in-house anti-oxidation treatment for extended service life -- most notably on rotor shafts for aluminium degassing units.

Grade	Density (g/cm3)	Resistivity	Thermal Cond. (W/m.k)	Application
OGR-A	1.72	10-12	125	Electrodes / Rotors & Shafts
OCR-A	1.65	11-13	110	Dry Lubrication Applications

Vibrated Graphite

Uniform density throughout large blocks. Cost-effective for bulk electrodes, anodes and large components. Available with our in-house anti-oxidation treatment for extended service life -- most notably on rotor shafts for aluminium degassing units.

Grade	Density (g/cm3)	Resistivity	Thermal Cond. (W/m.k)	Application
OGB-A	1.72	10-11	120	Sintering / Anode Applications
OGB-E	1.68-1.74	4.8-5.8	115	Crucible / Anode / Electrode
OGB-N	1.77-1.82	3.8-4.5	110	Seals / Special Applications