

Graphite Plate With Low Resistance

Application: Metallurgy, fuel- cell electrodes, water treatment, etc.

Dimensions: Custom- made per customer requirements; grooves can be machined according to technical drawings. **Grade:** Industrial Grade
Tennry Carbon specializes in technological innovation and manufacturing services for finished graphite plates. Our core strengths cover drawing- based design, high- purity material deployment, optimized processing efficiency, reliable lead- time assurance, and custom sample services.

We pursue in- depth collaboration with clients throughout the drawing- design phase. Backed by an experienced technical team and advanced design tools, we deliver end- to- end technical support, from initial requirement analysis through to final product delivery.

High- Purity Raw Materials — Reliable Quality for Diverse Industrial Scenarios

Our graphite plates adopt premium high- purity graphite as core raw material. Rigorous quality control ensures compliance with stringent performance standards across multiple industries, supported by our complete supply- chain management and logistics system.

Key Properties of Graphite Plates

1. Excellent high- temperature resistance
2. Superior thermal- shock resistance
3. Good thermal & electrical conductivity
4. Self- lubricating performance
5. Outstanding chemical stability

Thanks to these superior properties, graphite plates are widely applied in metallurgy, machinery, electric power, chemical and textile industries.

Technical index:

Isostatic graphite technical data

Index	Units	FSDK-4	FSDK-6 S	FSDK-7	FSDK-8	FSDK-9	FSDW-7	FSDW-8
Bulk density	≥g/cm ³	1.72	1.86	1.83	1.86	1.9	1.85	1.91
Electric resistivity	μ Ω .m	10-13	10-13	11-14	10-14	10-14	11-13	11-13
Compressive strength	Mpa	65	100	110	120	125	115	135
Flexural strength	Mpa	30	48	50	55	60	51	60
Shore hardness		40	65	67	72	75	65	70
Ash content/ purification	ppm	500/50	500/50	500/50	500/50	500/50	500/50	500/50
Average	μ m	25	12	8	6	2-4	8-10	8-10

granularity								
Coefficient of thermal expansion	$\times 10^{-6}/^{\circ}\text{C}$	5	4.2	3.8	4	3.9	5.6	5.85
Young's modulus	Gpa	9.2	11	11	12	12	11	12
Applications		>Vacuum furnace >Sintering	>Photovoltaic >Vacuum furnace >Melting gold crucible	>EDM	>EDM >Melting gold crucible	>EDM >Melting gold crucible	>EDM >Photovoltaic	>EDM >Photovoltaic

Mold graphite technical data

Index	Units	FSM-1	FSM-2	FSMK-3	FSMK-5	FSMK-5S	FSMW-4	FSMW-5
Bulk density	$\geq \text{g/cm}^3$	1.6	1.7	1.68	1.8	1.85	1.75	1.85
Electric resistivity	$\mu \Omega \cdot \text{m}$	8	7.5	9-13	8-10	8-10	8.5	8.5
Compressive strength	Mpa	28	36	45	70	80	65	85
Flexural strength	Mpa	14	18	20	35	40	38	46
Shore hardness		25	30	35	48	55	42	48
Ash content/purification	ppm	2000/-	2000/-	1000/50	1000/50	1000/50	1000/50	1000/50
Average granularity	μm	2000, 4000	800, 2000	15-45	15-45	15-45	14-45	14-45
Coefficient of thermal expansion	$\times 10^{-6}/^{\circ}\text{C}$	5.8	5.7	5.7	4.9	4.8	5.46	4.75
Young's modulus	Gpa	7	8	8	9.5	10	9	11.8

Product Name	Industry	Application
Crucible, Boat, Dish, etc.	Metallurgy	Melting, refining and analysis
Dies, Molds, Ingot		EDM graphite electrodes, semiconductor

Chassis, etc.		manufacturing, iron, steel and nonferrous metal making, continuous casting, metallurgy pressing machine
Graphite Roller, etc.		Heat treatment of steel plate in furnace
Conduit, Skateboard, etc.		Aluminum molding
Graphite Pipe		Guard pipe for measuring temperature, blowpipe, etc
Graphite Block		Masonry furnace and other heat resistance material
Chemical Equipment		Heat exchanger, reaction tower, distillation columns, absorption equipment, centrifugal pumps, etc
Electrolytic Plate	Chemistry	Salt solution and baking molten salt electrolyte
Electrolytic Mercury		NaCl electrolyte
Grounded Anode		Electrical anticorrosion
Motor Brush		Commutator, slipping ring
Current Collector	Electricity	Skate, slide, trolley
Contact		Switches, relays
Mercury Ferry And Electronic Pipe	Electronics	Anode, grid pole, repeller pole, ignition pole of the Mercury rectifier and anode, grid electrode
Graphite Bearing		High temperature resistance sliding bearing
Sealing Element	Machinery	Sealing ring, stuffing box seal, packing seal
Product Element		Braking in plane and vehicle

FAQ

1. When can I get the quotation?

We normally provide a quotation within 24 hours upon receipt of your detailed requirements, such as dimensions, quantity and other specifications. For urgent inquiries, you may contact us directly by phone.

2. Do you offer samples?

Yes, samples are available for your quality evaluation. Sample lead- time is approximately 7- 10 days.

3. What is the lead- time for mass production?

Production lead- time depends on order quantity, generally ranging from 7 to 12 days. For graphite- related products, the application for the dual- use items license will take around 45 working days.

4. What are your delivery terms?

We support FOB, CFR, CIF, EXW and other Incoterms. You may select the most suitable option for your project. Air freight and courier express services are also available.

5. How about product packaging?

Products are packed in custom wooden cases. Custom packaging solutions per your special requirements are also acceptable.

Looking forward to cooperating with you! Thank you.