

High Purity Graphite Crucible Supplier

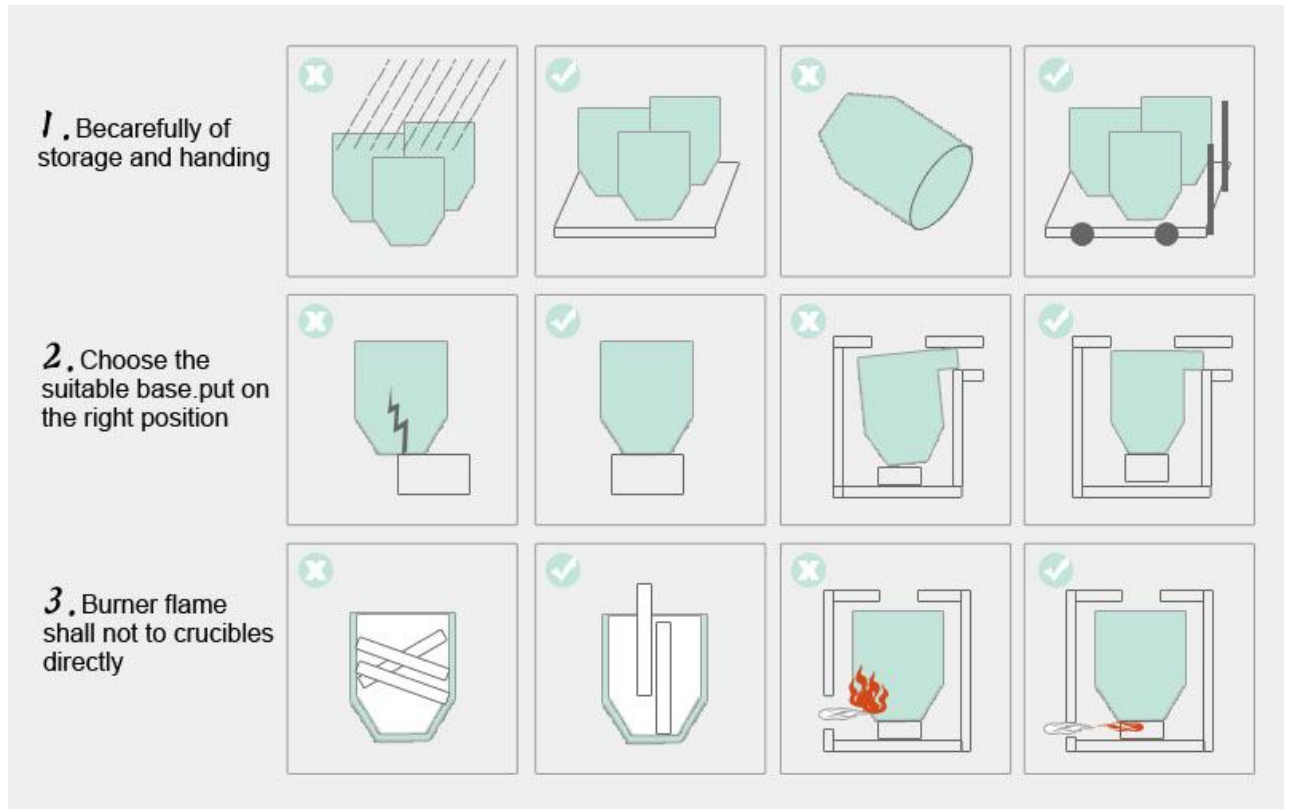
Graphite Crucible

Product Description

Our graphite crucible is manufactured from carefully- selected raw materials with anti- oxidant additives. It delivers superior performance and is widely applied for melting aluminum, copper, gold, silver and other non- ferrous metals.

1. **Thermal Stability** Engineered to withstand severe thermal shock under rapid heating- cooling working conditions, ensuring reliable service performance.
2. **Corrosion Resistance** Uniform, high- density structure effectively mitigates chemical corrosion from molten metals.
3. **Impact Resistance** High mechanical impact strength allows easy handling and secondary processing.
4. **Acid Resistance** Specially formulated material enhances acid- resistant properties, greatly prolonging crucible service life.
5. **High Thermal Conductivity** High fixed- carbon content delivers excellent thermal conductivity, shortening melting cycles and substantially cutting fuel and energy consumption.
6. **Minimal Metal Contamination** Strict raw- material composition control prevents impurity contamination of molten metals.
7. **Consistent Quality** High- pressure forming together with a complete quality- assurance system guarantees stable, repeatable product quality.

Crucible Using Guidelines



Isostatic graphite technical data

Index	Units	FSDK-4	FSDK-6 S	FSDK-7	FSDK-8	FSDK-9	FSDW-7	FSDW-8
Bulk density	$\geq \text{g/cm}^3$	1.72	1.86	1.83	1.86	1.9	1.85	1.91
Electric resistivity	$\mu \Omega \cdot \text{m}$	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 granularity	μm	25	12	8	6	2-4	8-10	8-10
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	>Photo voltaic >Vacuum furnace	>EDM	>EDM >Melting gold crucible	>EDM >Melting gold crucible	>EDM >Photovoltaic	>EDM >Photo voltaic

			>Melting gold crucible					
--	--	--	------------------------	--	--	--	--	--

Products can be processed as order requirement or drawings.

Product Name	Industry	Application
Crucible, Boat, Dish, etc.	Metallurgy	Melting, refining and analysis
Dies, Molds, Ingot Chassis, etc.		EDM graphite electrodes, semiconductor 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	Chemistry	Heat exchanger, reaction tower, distillation columns, absorption equipment, centrifugal pumps, etc
Electrolytic Plate		Salt solution and baking molten salt electrolyte
Electrolytic Mercury		NaCl electrolyte
Grounded Anode		Electrical anticorrosion
Motor Brush	Electricity	Commutator, slipping ring
Current Collector		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	Machinery	High temperature resistance sliding bearing
Sealing Element		Sealing ring, stuffing box seal, packing seal
Product Element		Braking in plane and vehicle

FAQ

1. When can I get the price? We normally provide quotations within 24 hours upon receipt of your detailed requirements, such as size, quantity and other specifications. For urgent inquiries, please feel free to call us directly.

2. Do you provide samples? Yes, samples are available for your quality testing. 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 7- 12 days. For graphite products requiring a dual- use item license, the licensing procedure takes around 45 working days.

4. What are your delivery terms? We accept FOB, CFR, CIF, EXW and other Incoterms. You may select the most suitable option for your project. Air freight and express delivery services are also available.

5. What about product packaging? Products are packed in custom wooden cases. Custom packaging solutions per your requirements are also acceptable.

Looking forward to cooperating with you. Thank you!