

ZX GRAPHITE TECH

ZX NEW MATERIALS · SHENZHEN, CHINA

PRODUCT CATALOG

Industrial Graphite Products & Components

Crucibles, rotors, electrodes, molds, vacuum-furnace parts and carbon materials — machined to your drawing and exported to 20+ countries.

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PRODUCT RANGE

Graphite Product Range

A full range of machined graphite and carbon products — from standard parts to fully customized components produced to your specifications.

CRUCIBLES

01

Graphite Crucibles

Clay-bonded, high-purity and ceramic crucibles for melting and casting precious and non-ferrous metals.

- Types: clay-bonded / high-purity / ceramic
- Service temperature up to ~2000°C
- Gold, silver, platinum, copper, aluminum

HEATING

02

Graphite Rods

High-temperature electric heating elements for vacuum and high-temperature furnaces.

- Working temperature up to ~3000°C
- Resistivity $\sim(8-13) \times 10^{-6} \Omega \cdot m$
- Vacuum-furnace heating elements

ALUMINUM

03

Graphite Rotors

Rotary degassing assemblies that disperse nitrogen / argon into molten aluminum as fine bubbles.

- Rotor head + shaft + connection
- Removes dissolved hydrogen & oxide slag
- Antioxidant coating available

SEALING

04

Graphite Sealing Components

Self-lubricating, corrosion-resistant sealing parts for pumps, valves and process equipment.

- Seal rings, expansion rings, vanes
- Bearings, bushings, washers
- Resin / metal / PTFE impregnation

SINTERING

05

Graphite Boats

Sintering carriers and trays for powder metallurgy and cemented-carbide production.

- Powder-metallurgy carriers
- Cemented-carbide sintering
- Custom cavities to drawing

PACKING

06

Graphite Sleeves

Gland packing and sleeves for shafts in marine, petroleum, chemical and power equipment.

- Flexible graphite / carbon-fiber / PTFE
- Self-lubricating, heat-resistant
- Marine / petroleum / chemical / power

ELECTRODES

07

Graphite Electrodes

RP, HP and UHP graphite electrodes for electric-arc and submerged-arc furnaces.

- Grades: RP / HP / UHP
- Steelmaking, silicon, yellow phosphorus
- Matched diameter & socket

CASTING

08

Graphite Molds

High-precision molds with low expansion and non-contaminating surfaces for casting and EDM.

- Continuous-casting crystallizers
- Up-casting & copper / gold casting
- Diamond-sintering & EDM tooling

VACUUM FURNACE

09

Vacuum Furnace Graphite Products

Heating elements, heat shields and structural parts for vacuum-furnace hot zones.

- Heating elements & heat shields
- Supports, trays, rails, fixtures
- Replaces tungsten / molybdenum / tantalum

CARBON

10

Calcined Petroleum Coke

Calcined recarburizer and carbon raiser for steelmaking and foundry.

- Sponge / needle / shot / fluid grades
- Carbon raiser for smelting
- Needle coke for graphite electrodes

CARBON

11

Calcined Petroleum Coke Powder

High fixed-carbon, low-sulfur recarburizer and carbon additive.

- Fixed carbon $\geq 98.5\%$
- Low sulfur & ash, uniform sizing
- 25 kg / 500 kg / 1 MT packaging