



ZHENGZHOU SHIBO NONFERROUS METALS PRODUCTS CO., LTD

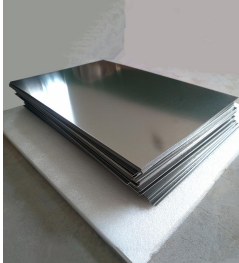
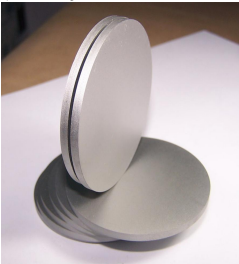
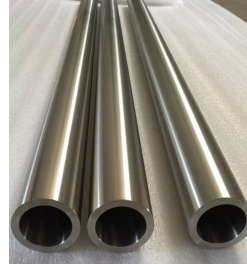

NO.2 HANGZHOU ROAD, XUSHUI INDUSTRY AND TRADE ZONE,

ZHENGZHOU, HENAN, CHINA 450042,

Tel: 86-371-67823000

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Molybdenum Products		
Purity	≥99.95%	
Density	≥10.2g/cm ³	
Surface	black, acid pickling, alkaline cleaning and polished	
Size	customized	
Product classification	molybdenum: 1) sheet; 2) rod; 3) electrode; 4) discs; 5) tube; 6) crucible; 7) boat; 8) screw & nut; 9) Processing all kinds of molybdenum products according to the drawing.	
1) molybdenum plate  Thickness: 0.03-30mm	2) molybdenum rod  Dia.: 3mm - 300mm	3) molybdenum electrode  Size: customized
4) molybdenum discs  Size: customized	6) molybdenum crucible  Outer dia.: 10-800mm, Height: 10-800mm	5) molybdenum tube  Min. wall thickness: 1mm
7) molybdenum boat  Joining method: riveted, folded or welded	8) molybdenum screw & nut  Model Number: M1.6-M64	9) all kinds of molybdenum products  all kinds of molybdenum workpiece according to the drawing
Attention	All the above products can be produced with lanthanum molybdenum and TZM material	

Molybdenum Lanthanum Products	
high temperature molybdenum products with lanthanum	
Purity	Mo: 99.27%, La: 0.62%
Density	≥10.2g/cm ³
Size	customized according to your requirement
Surface	black, acid pickling, alkaline cleaning and polished
Product classification	Lanthanum Molybdenum Alloy: 1) sheet; 2) rod; 3) electrode; 4) discs; 5) tube; 6) crucible; 7) boat; 8) screw & nut; 9) processing all kinds of molybdenum products according to the drawing.



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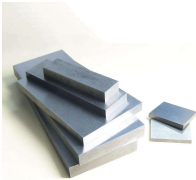







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Tungsten Products			
Purity	≥99.95%		
Density	≥19.3g/cm ³		
Surface	black, acid pickling, alkaline cleaning and polished		
Size	customized		
Attention	We can also produce all kinds of tungsten-lanthanum alloy products		
1) tungsten plate 	2) tungsten rod 	3) tungsten crucible 	4) tungsten tube 
5) tungsten wire 	3) tungsten heater 	6) tungsten screw & nut  Model Number: M1.6-M64	9) tungsten products  according to the drawing

Titanium Products			
Grade	Gr1, Gr2, Gr3, Gr4, Gr5, Gr7, Gr9, Gr12 etc.		
Standard	ASTM B265, AWS 4911, GB/T3621, etc		
Dimension	Thickness(4.1-60.0) * W(400-3000) * L(1000-6000)mm		
	Thickness(0.3- 4.0) * W(400-1000) * L(1000-3000)mm		
Surface	Polished, Black, Chemical, Car light, and Rolled surface.		
Features	Light weight, High strength, Good corrosion resistance, Good process performance		
1) titanium sheet 	2) titanium rod 	3) titanium tube 	4) other titanium products 

Tantalum Products				
Name	Tantalum Sheet/Plate			
Grade	R05200, R05400, R05252, R05255, R05240			
Shape	Plate/sheet, strip, foil			
Condition	1) Hot-rolled/Cold-rolled; 2) Alkaline Cleaning; 3) Electrolytic polish; 4) Machining, grinding; 5) Stress relief annealing			
Dimensions	Item	thickness (mm)	Width (mm)	Length (mm)
	Foil	0.03-0.09	30-300	>200
	Plate	0.1-0.5	30-600	30-2000
	Sheets	0.5-10	50-1000	50-2000



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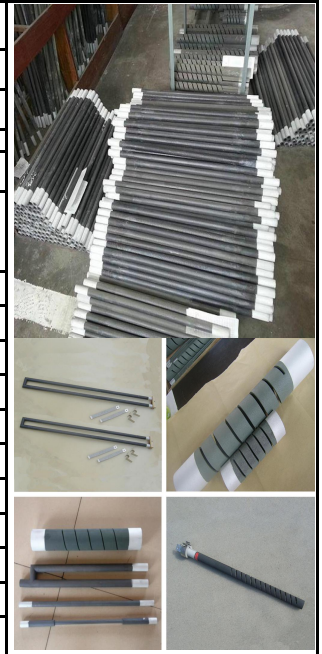
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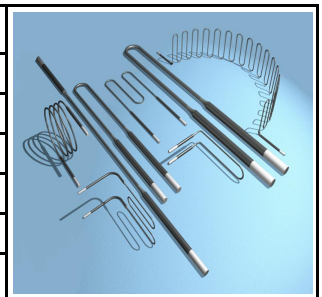
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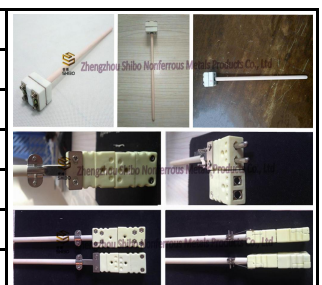
SiC Heating Element				
Shape	ED, SC, SCR, Dumbbell, U, W and other special shape			
Used temp	Up to 1400C			
Regular specifications				
Outer Dia. (mm)	Hot zone length (mm)	Cold zone length (mm)	Overall length (mm)	Resistance range (ohm)
12	100-400	100-350	300-1100	0.8-4.2
14	100-500	150-350	400-1200	0.7-3.0
16	200-600	200-350	600-1300	0.7-3.0
20	200-900	250-600	700-2100	0.7-3.1
25	200-1200	250-700	700-2600	0.6-2.88
31.8	300-2000	250-800	800-3600	0.4-3.0
38.1	500-2700	250-800	1000-4300	0.5-2.62
40	500-2700	250-800	1000-4300	0.3-3.2
50	600-2500	300-750	1200-4000	0.3-1.82
54	600-3000	300-750	1200-4500	0.3-1.71
You can customize various sizes according to your needs				



MoSi2 heating element	
Type	1700C, 1800C
Shape	U, UJL, W, ROD, WJL and other special shape
Diameters	3/6, 4/9, 7/12, 6/12, 9/18, 12/24 mm
Size	customized
Used temp	1300C to 1800C
application	mainly used in the industrial and Laboratory furnace etc.



Thermocouple		
Type	Positive pole & negative pole	Usage temperature range
K	NiCr-NiSi	0-1200C
S	PtRh10-Pt	0-1600C
R	PtRh13-Pt	0-1600C
B	PtRh30-PtRh6	600-1800
Protection tube	alumina ceramic tube	



High pure alumina products				
Alumina crucible	Shape: 1) Curved; 2) Square; 3) Straight; 4) Round bottom.			
Alumina tube	alumina single tube and alumina casing			
Technical parameters	Volume density:	≥3.80 g/cm ³		
	Apparent porosity:	<1%		
	Bending resistance:	>350 Mpa		
	Compressive strength:	>12000 Mpa		
	Dielectric constant (1MHz):	2		
	Maximum usage temperature:	1800C		
Chemical component	Ai ₂ O ₃	R ₂ O	Fe ₂ O ₃	SiO ₂
	≥99	≤0.2	≤0.1	≤0.2





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SHIBO

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High Temperature Muffle Furnace

Model	BOX-1200	BOX-1400	BOX-1700	BOX-1800
Max. Temp	1200°C	1400°C	1700°C	1800°C
Long-term use Temp	≤1100°C	≤1300°C	≤1600°C	≤1700°C
Heating element	resistance wire	SiC heater	1700C and 1800C MoSi2 heater	
Thermocouple	K type	S type	B type	B type
Max. heating rate	20°C/min	15°C/min	15°C/min	15°C/min
Rated Power	3-10kw	3-12kw	3-16kw	3-16kw
Temp accuracy	±1°C	±1°C	±1°C	±1°C
Temperature control	PID automatic control, 51 temperature control program.			
Power:	110/220/380V AC, 50/60Hz			



Chamber size	I: 160*150*150mm;	II: 200*200*200mm;	III: 300*200*200mm
	IV: 300*250*250mm;	V: 300*300*300mm;	VI: 400*300*300mm
Other specifications can be customized according to your request.			

Feature

- 1) Method of temperature control: by temperature microcomputer intelligent programmable temperature control, the PID programmable 50 segments temperature control program.
- 2) Furnace adopts the vacuum suction molding alumina fiber, energy saving, light volume, high cooling speed, the temperature field balancing, good thermal shock resistance ability.
- 3) Furnace body structure characteristic: The internal and external double-layer structure, heat storage is small, the outer furnace wall temperature is low. Fast heating and heat preservation performance is good, the energy saving effect is obvious; Equipped with rapid air cooling system. Oven door and oven door frame to cool the air cooling design, guarantee the oven door use for a long time not out of shape.
- 4) The stove top can install vent, furnace and control system integration design, compact and beautiful.

Vacuum Tube Furnace

Model	TUBE-1200	TUBE-1400	TUBE-1700
Max. usage Temp	1200°C	1400°C	1700°C
Long-term use Temp	≤1100°C	≤1300°C	≤1600°C
Furnace tube material	quartz tube	alumina tubes	alumina tubes
Heating element	resistance wire	SiC heater	MoSi2 heater
Thermocouple	K type	S type	B type
Max. heating rate	20°C/min	15°C/min	15°C/min
Rated Power	About 3KW	About 4KW	About 4KW
Temp accuracy	±1°C	±1°C	±1°C
Power	110V/220V/380V AC, 50/60Hz		



Temperature control	PID automatic control, 51 temperature control program.		
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Size of furnace tube	I: Dia. 40 * L1000mm;	II: Dia. 60 * L1000mm;
	III: Dia. 80 * L1000mm;	IV: Dia. 100 * L1000mm;
We can produce the furnace with multi-temperature area according to your requirements.		

Feature

- 1) Vacuum Tube Furnace, use 708P type temperature controller (professional PID control) for automatic temperature control with high temperature control precision (±1°C), with safe and reliable, simple operation, convenient
- 2) Heat preservation effect is good, wide temperature range, high uniformity of furnace temperature, can connect vacuum atmosphere, etc.
- 3) This furnace have vacuum device, can be used to vacuum, and can work under a variety of atmosphere, which greatly improving the scope of its use.



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Atmosphere Furnace

Model	BOX-1200Q	BOX-1400Q	BOX-1600Q
Maximum Temperature	1200°C	1400°C	1600°C
Rated Temperature	1100°C	1300°C	1500°C
Heating Element	resistance wire	SiC heater	MoSi2 heater
Thermocouple	K type (NiCr-NiSi)	S type (PtRh10-Pt)	B type (PtRh30-PtRh6)
Heating Rate	0-20°C	0-20°C	0-15°C
temperature departure	≤ 5°C	≤ 5°C	≤ 5°C
Can use Atmosphere	Nitrogen, Argon and other inert gases		
Furnace Shell Structure	Double furnace shell and is equipped with air cooling system		
Temperature control	PID automatic control, 51 temperature control program.		
Voltage	AC 220V, 50/60Hz, single phase, or customized		
Quality Guarantee	One year		



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	III: Dia. 80 * L1000mm; IV: Dia. 100 * L1000mm;
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Feature

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- 4) The stove top can install vent, furnace and control system integration design, compact and beautiful.

Vacuum Furnace

Model	BOX-1200	BOX-1400	BOX-1600
Maximum Temperature	1200°C	1400°C	1600°C
Rated Temperature	1100°C	1300°C	1500°C
Heating Element	resistance wire	SiC heater	MoSi2 heater
Thermocouple	K type (NiCr-NiSi)	S type (PtRh10-Pt)	B type (PtRh30-PtRh6)
Heating Rate	0-20°C	0-15°C	0-15°C
temperature departure	≤ 1°C	≤ 1°C	≤ 1°C
Can use Atmosphere	Nitrogen, Argon and other inert gases		
Furnace Shell Structure	Double furnace shell and is equipped with air cooling system		
Temperature control	PID automatic control, 51 temperature control program.		
Voltage	AC 220V, 50/60Hz, single phase, or according to your requirement.		
Quality Guarantee	One year		



Size of furnace tube	I: 160*150*150mm; II: 200*200*200mm; III: 300*200*200mm
	IV: 300*250*250mm; V: 300*300*300mm; VI: 400*300*300mm
Other specifications can be customized according to your request.	