



**YT**  
GRAPHITE

# YE CARBON

A COMPANY SPECIALIZING IN CUSTOMIZED GRAPHITE PRODUCT MANUFACTURING

YE CARBON SHANGHAI GRAPHITE CO., LTD.







YT

## CUSTOMIZED PRODUCTION OF GRAPHITE PRODUCTS

CONTACT US 

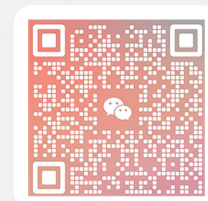
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FACTORY Linzhang Xinhui Carbon Manufacturing Co., Ltd





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GRAPHITE



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## DEVELOPMENT HISTORY

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PART 04

P3



2004

SINCE

160 +

PARTNER

2

FACTORY



# YE CARBON

Ye Carbon Shanghai Graphite Co., Ltd. was established in 2023, specializing in graphite and carbon products, as well as standard and non-standard fasteners. The company's main products include graphite electrodes, Special type graphite, carbon additives, carbon bricks, paste products, non-standard graphite products, ferroalloys, alloy cored wires, and various high-quality bolts, nuts, screws, expansion bolts, self-drilling screws, and other fasteners and non-standard fasteners.

GRAPHITE ELECTRODES ARE AN INDISPENSABLE RAW MATERIAL IN THE STEEL INDUSTRY.



CHEMICAL INDUSTRY



AEROSPACE INDUSTRY



MEDICAL INDUSTRY



NEW ENERGY INDUSTRY

We are a company specializing in the customized production of graphite products with two production bases, both located in Hebei Province, China. The company integrates raw material calcination, molding, baking, impregnation, graphitization, and processing, providing one-stop full-process production services. It mainly produces HP and UHP graphite electrodes, with an annual production capacity of approximately 50,000 tons.

The company is also professionally committed to the customized production of standard fasteners and non-standard fasteners. The products comply with the national standard (GB), American standard (ANSI), German standard (DIN), Italian standard (UNI), Japanese standard (JIS), international standard (ISO) and other standards, and are widely used in electrical appliances, automobiles, bridges, highways, aviation, electric power and other fields.

COMMITTED TO PROVIDING CUSTOMERS WITH RELIABLE ENERGY STORAGE PRODUCTS AND SOLUTIONS.

The company's products are not only popular in the domestic market but also exported to Europe, Asia, Africa, North America, South America, the Middle East, and South Africa. With superior product quality, good oxidation resistance, competitive prices, and excellent after-sales service,



# APPLICATION INDUSTRY



Graphite electrodes are used in EAF&LF and submerged arc furnaces.



Application of isostatic graphite in semiconductor and chemical



Medium-coarse graphite is used in mechanical and chemical equipment.



Dual Carbon" leads the green development of energy storage.



Small screws, big world, rooted in China, fastening the world.



Electric furnace smelting, carburizer for petrochemical indust



Graphite crucible for refining negative electrode materials.

# ENTERPRISE CULTURE



## COMPANY'S STYLE

BE LOYAL TO CAREER AND DEDICATION



## MANAGEMENT CONCE

EVERYONE MUST BE RESPONSIBLE AND DO ECERYTHING PER STANDARD



## COMPANY'S EXPECTATION

BUILD A FIRST CLASS CARBON COMPANY IN THE WORLD



## COMPANY'S SPIRIT

BE LOYAL TO CAREER AND DEDICATION



## QUALITY CONCE

QUALITY IS FATAL TO COMPANY



## TALENT CONCE

TALENT MEANS DOING ONE'S OWN WORK WELL



## SAFETY CONCE

LIFE IS SUPREME AND SAFETY IS FIRST

# DEVELOPMENT HISTORY

2004



## 2004

Registered Xinhui Carbon. We started to deal in graphite electrodes and carbon products



## 2005

3000 ton hydraulic molding machine put into production



## 2006

A 16-chamber roasting furnace was put into operation



## 2007

A high pressure impregnation production line was put into production



## 2008

Electrode Anti-Oxidation Coating Workshop Operation

2009



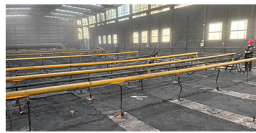
## 2009

A 30-chamber ring roasting furnace was put into production



## 2011

4100 ton hydraulic molding machine put into operation



## 2012

20-chamber and 30-chamber ring roasting furnaces were put into operation

2014



## 2015

The first section of the machining workshop was completed and put into production



## 2016

Fully CNC electrode processing lines and fully CNC joint automatic processing lines are in operation.



## 2017

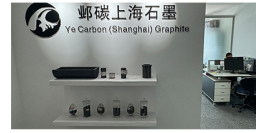
The company's office building was put into use. Acquired Zhongxuan Carbon



## 2018

Annual production capacity is 50,000 tons. The packaging workshop was completed and put into use

2019



## 2023

Yetan Shanghai Graphite Co., Ltd. was established

2024

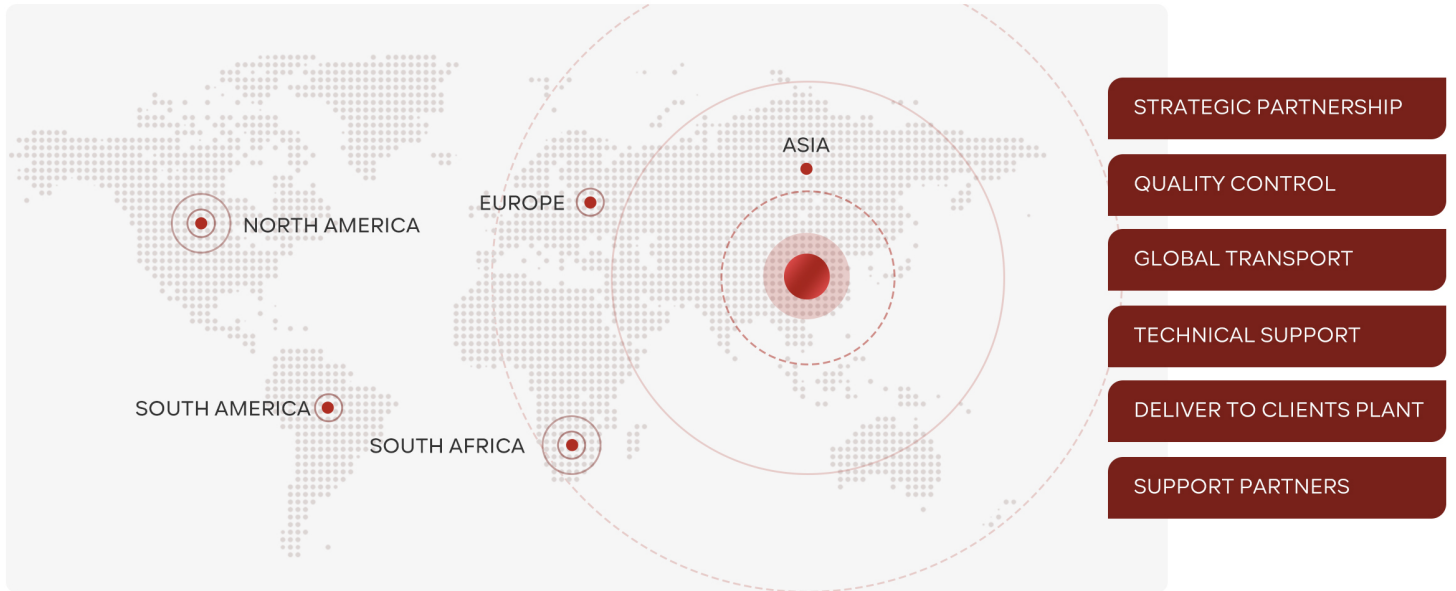


## 2024

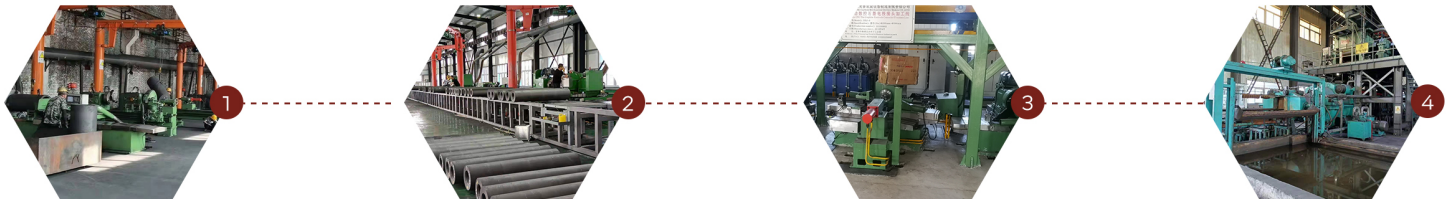
Exploring the application of isostatic graphite in the field of new energy



# COOPERATION PROCESS



# CLIENT SERVICE AND TECHNICAL SUPPORT



## BEFORE SALES SERVICE

DISCUSSION WITH CLIENTS TECHNICIANS TO GET SPECIFIC REQUIREMENT OF PRODUCT.

## AFTER SALES SERVICE

PERIODICALLY VISIT CLIENTS TO GET SPECIFIC PERFORMANCE RESULTS AND LISTEN TO FEEDBACK AND SUGGESTIONS FROM STEEL MILLS. IMPROVE PRODUCT QUALITY CONTINUOUSLY TO MEET CLIENT REQUIREMENT.

## IN SALES SERVICE

DISCUSSION AND EVALUATION ON PRODUCT PERFORMANCE WITH STEEL MILL TECHNICIANS.

## QUALITY TRACKING

TIMELY HANDLE QUALITY DISCREPANCY PUT FORWARD BY CUSTOMERS, SOLVE QUALITY DISCREPANCY AND DISPATCH TECHNICIANS TO JOBSITE FOR TRACKING SERVICE ACCORDING TO SPECIFIC SITE CONDITIONS TO FIND OUT REASON OF THE PROBLEM FOR CONTINUOUS IMPROVEMENT OF PRODUCT

# ISOSTATIC GRAPHITE



## Product Description

Isostatic pressure isotropic graphite is made of high-quality asphalt coke, petroleum coke as raw material and pitch as binder by grinding, batching, mixing, secondary grinding, isostatic pressing molding, baking, impregnation, graphitization, purification and other processes. It has the characteristics of good isotropic, fine and uniform structure, high mechanical strength, good high temperature resistance, strong chemical corrosion resistance, good electrical and thermal conductivity and excellent machining performance, widely to be used in solar photovoltaic, semiconductor, metal continuous casting, precious metal smelting, and other industries.

## Technical Specification of Isotropic Graphite

Trademark	$\geq \text{g/cm}^3$	$\mu\Omega\text{-m}$	$\text{W/m} \cdot \text{k}$	$\times 10^{-6} / ^\circ\text{C}$	HSD	MPA	MAP	GPA	PPM	$\mu\text{m}$
YTS-1	1.78	13-18	70	5.0	65	$\geq 45$	$\geq 95$	11.0	$\leq 200$	15
YTS-2	1.78	13-18	70	5.0	65	$\geq 45$	$\geq 95$	11.0	$\leq 200$	15
YTS-3	1.78	13-18	70	5.0	65	$\geq 45$	$\geq 95$	11.0	$\leq 200$	15
YTS-4	1.78	13-18	70	5.0	65	$\geq 45$	$\geq 95$	11.0	$\leq 200$	15
YTS-5	1.78	13-18	70	5.0	65	$\geq 45$	$\geq 95$	11.0	$\leq 200$	15
YTS-6	1.78	13-18	70	5.0	65	$\geq 45$	$\geq 95$	11.0	$\leq 200$	15
YTE-1	1.82	13-16	76.9	5.0	75	$\geq 80$	$\geq 165$	11.0	$\leq 100$	5
YTE-2	1.78	13-16	76.9	5.0	75	$\geq 80$	$\geq 165$	11.0	$\leq 100$	7
YTE-3	1.80	13-16	76.9	5.0	75	$\geq 80$	$\geq 165$	11.0	$\leq 100$	10
YTI-1A	1.85	10-13	133	4.8	60	$\geq 45$	$\geq 90$	11.5	$\leq 300$	20
YTI-1B	1.80	11-13	121	4.8	55	$\geq 40$	$\geq 86$	10	$\leq 300$	20
YTI-1C	1.80	11-15	120	5.0	58	$\geq 47$	$\geq 88$	11.6	$\leq 300$	20
YTI-1D	1.75	11-15	108	4.8	54	$\geq 40$	$\geq 82$	10.5	$\leq 300$	20
YTI-4S	1.80	12.5	121	4.7	55	$\geq 37$	$\geq 80$	11.5	$\leq 500$	20
YTI-5L	1.85	11.5	140	4.8	62	$\geq 47$	$\geq 95$	11.5	$\leq 400$	20
YTI-8L	1.80	11.0	130	4.3	50	$\geq 40$	$\geq 86$	12.5	$\leq 400$	20
YTI-9L	1.88	13.0	120	5.0	65	$\geq 50$	$\geq 105$	9.5	$\leq 500$	20
EDM-9	1.90	14.0	85	6.8	90	80	160	14.0	5	6



### Technical Specification of Isotropic Graphite

Trademark	$\geq g/cm^3$	$\mu\Omega\cdot m$	$W/m \cdot k$	$\times 10^{-6} / ^\circ C$	HSD	MPA	MAP	GPA	PPM	$\mu m$
EDM-10	1.83	12.0	100	5.3	66	52	110	12.5	500	10
EDM-80	1.75	13.0	100	6.0	60	50	100	10.0	500	10
EDM-60	1.88	13.0	120	6.0	75	80	160	12.5	500	6
M32	1.86	14.0		5.5	95	80	165	13.5		3
M33	1.72	20.0		6.0	85	65	155	12.0		3
YTI-2G	1.80	12.0	121	4.5	55	40	86	10.0	20	15
YTI-3G	1.85	12.0	133	5.2	60	45	90	11.5	20	15
YTI-47G	1.85	12.0	116	4.8	65	48	102	12.2	20	15
YTI-S1	1.80	12.5	105	4.5	58	45	90	10.0	5	10
YTI-S2	1.82	11.0	120	4.8	55	50	105	10.0	5	10
YTI-S3	1.78	11.0	120	3.8	55	40	85	10.0	5	10

### Product Specifications

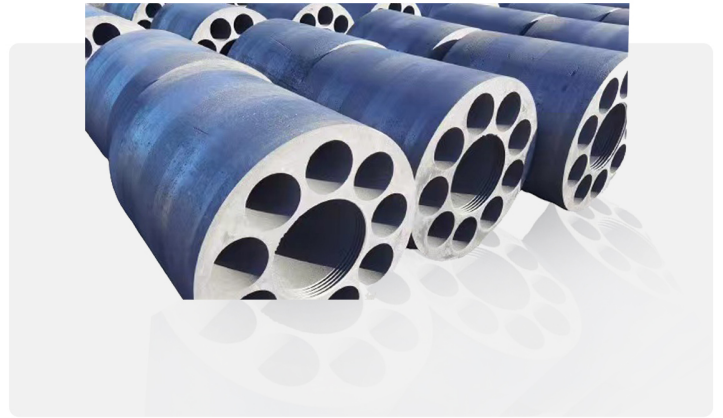
Round	$\varnothing 1250 \times 900mm$ , $\varnothing 1100 \times 1100mm$ , $\varnothing 1100 \times 800mm$ , $\varnothing 985 \times 1100mm$ , $\varnothing 985 \times 850mm$ , $\varnothing 300 - \varnothing 450 \times 450mm$ , $\varnothing 480 \times 500mm$ , $\varnothing 520 \times 600/700mm$ , $\varnothing 585 \times 600mm$ , $\varnothing 640 \times 630mm$ , $\varnothing 650 \times 700mm$ , $\varnothing 680 \times 650mm$ , $\varnothing 700 \times 700mm$ , $\varnothing 750 \times 700/750mm$ , $\varnothing 825 \times 700mm$ , $\varnothing 890 \times 700mm$ .
Square	$720 \times 700 \times 2200mm$ , $310 \times 610 \times 1250mm$ , $310 \times 610 \times 1250mm$ , $310 \times 610 \times 1250mm$ , $400 \times 400 \times 400/500/600mm$ , $1000 \times 500 \times 300mm$ , $1000 \times 300 \times 200mm$ , $1300 \times 620 \times 400mm$ , $1600 \times 600 \times 400mm$ , $2000 \times 600 \times 400mm$ .

### Note

1. We can produce isostatic graphite products of different specifications and performances according to user needs.
2. The numerical values are representative characteristics, not guaranteed values.
3. The above standard dimensions are tolerance dimensions.



# GRAPHITE CRUCIBLE



## Description

Graphite crucible is made of artificial graphite electrode material with good thermal conductivity and high temperature resistance. It is used in high temperature processes, has a good thermal expansion coefficient, good resistance to rapid heating and cooling, strong corrosion resistance to acid and alkaline solutions, and can withstand high temperatures of 2000°C. It is used as a high-temperature container for melting and holding non-ferrous metals and producing negative electrode materials.

## Technical Specification of Graphite Crucible & Carbon Crucible

Physical and chemical indicators	Unit	Parameter value
Density	g/cm <sup>3</sup>	≥1.5
Tensile strength	MPa	≥80
Compressive strength	MPa	≥160
Bending strength	MPa	≥150
1600°C Thermal conductivity (1600°C)	W/(m·K)	10-12
Thermal expansion coefficient (level)	×10 <sup>-1</sup> /K	1-2
Thermal expansion coefficient (vertical)	×10 <sup>-1</sup> /K	6-8.5
Ash content	ppm	<150
(R.T-1250°C) Resistivity(R.T-1250°C)	μΩ·m	25-50
Heat treatment temperature	°C	≥2000

## Product Specifications

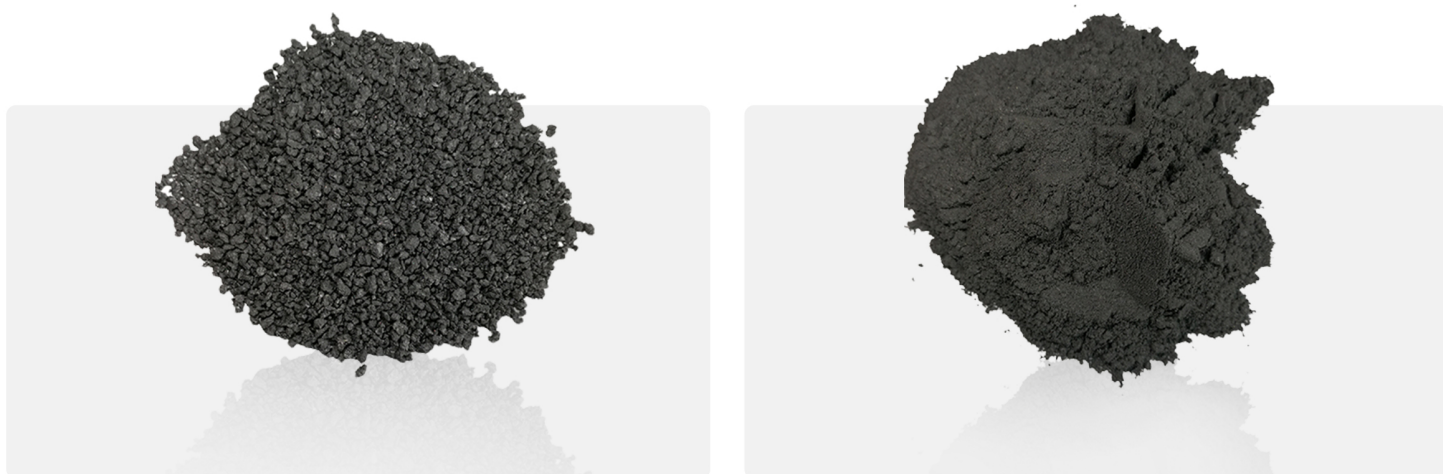
Round	Ø850×960m, Ø960×1000m, Ø550×600m, Ø600×1100m, Ø600×1200m, Ø400×600m.
Square	400×400×400mm, 350×350×350mm, 300×300×300mm, 450×450×400mm, 500×500×400mm.

## Note

1. We can produce graphite crucibles and carbon crucible products with different specifications and performances according to user needs.
2. The numerical values are representative characteristics, not guaranteed values.
3. The above standard dimensions are tolerance dimensions.



# CARBON RAISER



## Physical & chemical properties

Item	Fixed Carbon	Sulphur	Ash	Volatile matter	Nitrogen	Moisture	Size(mm)
GPC	99% min.	0.03% max.	0.3% max.	0.5% max.	0.01% max.	0.3% max.	1-3
GPC	99% min.	0.03% max.	0.3% max.	0.8% max.	0.03% max.	0.3% max.	1-5
GPC	99% min.	0.03% max.	0.3% max.	0.5% max.	0.01% max.	0.3% max.	2-5
GPC	98% min.	0.07% max.	1% max.	1% max.	0.03% max.	0.5% max.	0.2-1
GPC	98% min.	0.1% max.	1% max.	1% max.	0.05% max.	0.5% max.	0-0.5

Special grain size can be customized based on your actual requirement.

Item	Fixed Carbon	Sulphur	Ash	Volatile matter	Real density g/cm	Electric resistance	Moisture	Size(mm)
CPC	98.5% min.	3% max.	0.5% max.	0.7% max.	2.05% min.	500 max.	0.5% max.	0-2
CPC	98.5% min.	3% max.	0.5% max.	0.7% max.	2.05% min.	520 max.	0.5% max.	0.5-2
CPC	98.5% min.	1.5% max.	0.5% max.	0.7% max.	2.05% min.	520 max.	0.5% max.	1-5
CPC	98.5% min.	1.0% max.	0.5% max.	0.7% max.	2.05% min.	520 max.	0.5% max.	1-8
CPC	98.5% min.	1.6% max.	0.5% max.	0.7% max.	2.05% min.	520 max.	0.5% max.	2-8

Special grain size can be customized based on your actual requirement.

## Product Packing

- 1. In 25kgs per bag
- 2. 25kgs bags put into a 1000kg jumbo bag
- 3. In 1000kg jumbo bag

## Q&A

- 1. Port: Tianjin Port
- 2. Packing: Woven Bag
- 3. Delivery time: 5-7days
- 2. Minimum order quantity: 20tons
- 3. Supply Ability: 5000 tons/month

# GRAPHITE ELECTRODE



## Description

Graphite electrodes are made of mixed petroleum coke and needle coke as raw materials, coal tar pitch as binder, and are made by extrusion, baking, impregnation, graphitization, and mechanical processing. They are used as conductive materials in EAF (electric arc furnace) and LF (ladle furnace). There are three series: normal power (RP), high power (HP) and ultra-high power (UHP).

## Technical Specification of Graphite Electrode

Specifications mm		Bulk Density g/m <sup>3</sup>		Specific Resistance μΩm		Flexural Strength Mpa		C • T • E(100-600°C) 10 <sup>-6</sup> /°C		Elastic Modulus Gpa	
		Electrode	Nipple	Electrode	Nipple	Electrode	Nipple	Electrode	Nipple	Electrode	Nipple
RP	Φ200-Φ450	1.54~1.62	1.73~1.78	7.0~8.8	4.2~5.5	7.5~9.5	17~22	2.0~2.5	1.7~2.0	6.5~9.0	10~16
	Φ500-Φ800			7.5~9.9		6.5~8.5					
HP	Φ200-Φ450	1.65~1.73	1.77~1.82	5.0~6.2	3.4~4.5	10.5~15.5	21~26	1.6~1.9	1.3~1.6	9.0~12.0	12~18
	Φ500-Φ800			5.3~6.9		9.0~15.0					
UHP	Φ200-Φ450	1.66~1.75	1.80~1.86	4.2~5.8	3.0~4.0	10.5~15.5	23~32	1.0~1.4	0.9~1.2	9.0~13.0	15~21
	Φ500-Φ800					9.0~15.0					

## Recommended Current Carrying Capacity of Graphite Electrode

Nominal Diameter mm	RP		HP		UHP	
	A	A/m <sup>3</sup>	A	A/m <sup>3</sup>	A	A/m <sup>3</sup>
200	5000~6900	15~21	5500~9000	18~25		
250	7000~10000	14~20	8000~13000	18~25		
300	10000~13000	14~18	13000~17400	17~24	15000~22000	20~30
350	13500~18000	14~18	17400~24000	17~24	20000~30000	20~30
400	18000~23500	14~18	21000~31000	16~24	25000~40000	19~30
450	22000~27000	13~17	25000~40000	15~24	32000~45000	19~27
500	25000~32000	13~16	30000~48000	15~24	38000~55000	18~27



### Recommended Current Carrying Capacity of Graphite Electrode

Nominal Diameter	RP		HP		UHP	
	A	A/m <sup>3</sup>	A	A/m <sup>3</sup>	A	A/m <sup>3</sup>
mm						
550	28000~34000	12~14	34000~53000	14~22	45000~65000	18~27
600	30000~36000	11~13	38000~58000	13~21	52000~75000	18~27
650	32000~39000	10~12	41000~65000	12~20	60000~91000	18~27
700	34000~42000	9~11	45000~72000	12~19	70000~120000	18~30
750	41000~51000	9~11	55000~87000	12~19	82000~124000	18~27
800	47000~57000	9~11	62000~99000	12~19	94000~141000	18~27

### Diameter and Length of Graphite Electrode

Nominal Diameter(mm)		Actual Diameter(mm)			Actual Length(mm)		
mm	inch	Max	Min	Min Crust Diameter	Standard	Tolerance	Short
200	8	205	200	197	1800	±100	-275
250	10	256	251	248	1800	±100	
300	12	307	302	299	1800	±100	
350	14	358	352	349	1800/2100/2400	±100	
400	16	409	403	400	1800/2100/2400	±100	
450	18	460	454	451	1800/2100/2400	±100	
500	20	511	505	502	1800/2100/2400	±100	-300
550	22	562	556	553	2100/2400/2700	+200	
600	24	613	607	604	2100/2400/2700	+200~-150	
650	26	663	659	656	2400/2700/3000	+200~-150	
700	28	714	710	707	2400/2700/3000	+200~-150	
750	30	765	761	758	2400/2700/3000	+200~-150	
800	32	816	812	809	2400/2700/3000	+200~-150	

### Graphite electrode nipples and nipple hole dimensions and allowable deviations

Nominal Diamete	Designation Of Joint	Dimensions Of nipple				I	Dimensions Of Socket		Thread per inch
		D Tolerance (-0.5~0)	L Tolerance (-0.5~0)	d2 Tolerance (-5~0)	d1 Tolerance (0~0.5)		H Tolerance (0~7)		
mm	IEC							mm	
250	155T3N	155.57	220.00	103.80	<10	147.14	116.00	8.47	
300	177T3N	177.16	270.90	116.90		168.73	141.50		
350	215T3N	215.90	304.80	150.00		207.47	158.40		
400	215T3N	215.90	304.80	150.00		207.47	158.40		
400	241T3N	241.30	338.70	169.80		232.87	175.30		
450	241T3N	241.30	338.70	169.80		232.87	175.30		
450	273T3N	273.05	355.60	198.70		264.62	183.80		

## Graphite electrode nipples and nipple hole dimensions and allowable deviations

Nominal Diameter	Designation Of Joint	Dimensions Of nipple				Dimensions Of Socket		Thread per inch
		D Tolerance (-0.5~0)	L Tolerance (-0.5~0)	d2 Tolerance (-5~0)	I	d1 Tolerance (0~0.5)	H Tolerance (0~7)	
mm	IEC							mm
500	273T3N	273.05	355.60	198.70	<10	264.62	183.80	8.47
500	298T3N	298.45	372.60	221.30		290.02	192.20	
550	298T3N	298.45	372.60	221.30		290.02	192.20	
200	122T4N	122.24	177.80	80.00	<7	115.92	94.90	6.35
250	152T4N	152.40	190.50	108.00		146.08	101.30	
300	177T4N	177.80	215.90	129.20		171.48	114.00	
350	203T4N	203.20	254.00	148.20		196.88	133.00	
400	222T4N	222.25	304.80	158.80		215.93	158.40	
400	222T4L	222.25	355.60	150.00		215.93	183.80	
450	241T4N	241.30	304.80	177.90		234.98	158.40	
450	241T4L	241.30	355.60	169.42		234.98	183.80	
500	269T4N	269.88	355.60	198.00		263.56	183.80	
500	269T4L	269.88	457.20	181.08		263.56	234.60	
550	298T4N	298.45	355.60	226.58		292.13	183.80	
550	298T4L	298.45	457.20	209.65		292.13	234.60	
600	317T4N	317.50	355.60	245.63		311.18	183.80	
600	317T4L	317.50	457.20	228.70		311.18	234.60	
650	355T4N	355.60	457.20	266.79		349.28	234.60	
650	355T4L	355.60	558.80	249.86		349.28	285.40	
700	374T4N	374.65	457.20	285.84		368.33	234.60	
700	374T4L	374.65	558.80	268.91		368.33	285.40	
750	406T4N	406.40	584.20	296.42		400.08	298.10	
750	406T4L	406.40	609.60	292.19		400.08	310.80	
800	432T4N	431.80	635.00	313.36	425.48	323.50		
800	432T4L	431.80	685.80	304.89	425.48	348.90		

## Dimensions and Weight of Packing

Nominal Diameter ×Length		Pcs/Pkg	Electrodes		Electrodes with pins	
mm	Inch	pcs	Overall Dimensions	Approx.Weight	Overall Dimensions	Approx.Weight
			mm	kg	mm	kg
200×1800	8×72		2000×1065×500	908	2090×1065×500	930
250×1800	10×72	7	2000×1065×600	1110	2110×1065×600	1150
300×1800	12×72	3	2000×960×420	685	2135×960×420	710
300×1800	12×72	6	2000×960×720	1370	2135×960×720	1420
350×1800	14×72	3	2000×1100×470	880	2150×1100×470	915

## Dimensions and Weight of Packing

Nominal Diameter ×Length		Pcs/Pkg	Electrodes		Electrodes with pins	
mm	Inch	pcs	Overall Dimensions	Approx.Weight	Overall Dimensions	Approx.Weight
			mm	kg	mm	kg
350×2100	14×84	3	2300×1100×470	1035	2450×1100×470	1070
350×2400	14×96	3	2600×1100×470	1185	2750×1100×470	1220
400×1800	16×72	2	2000×855×520	795	2175×855×520	830
400×1800	16×72	3	2000×1265×520	1180	2175×1265×520	1230
400×2100	16×84	2	2300×855×520	890	2475×855×520	920
400×2100	16×84	3	2300×1265×520	1300	2475×1265×520	1345
400×2400	16×96	2	2600×855×520	1035	2775×855×520	1065
400×2400	16×98	3	2600×1265×520	1550	2775×1265×520	1595
450×1800	18×72	2	2000×960×570	990	2175×960×570	1035
450×2100	18×84	2	2300×960×570	1100	2475×960×570	1140
450×2400	18×95	2	2600×960×570	1335	2780×960×570	1380
500×1800	20×72	2	2000×1065×630	1205	2230×1065×630	1260
500×2100	20×84	2	2300×1065×630	1375	2530×1065×630	1440
500×2400	20×96	2	2600×1065×630	1625	2830×1065×630	1680
500×2700	20×108	2	2900×1065×630	1815	2830×1065×630	1870
550×2100	22×84	2	2320×1165×680	1690	2550×1165×680	1775
550×2400	22×96	2	2620×1165×680	1940	2850×1165×680	2025
550×2700	22×108	2	2920×1165×680	2180	3150×1165×680	2265
600×2100	24×84	2	2320×1265×750	2000	2550×1265×750	2098
600×2400	24×96	2	2620×1265×750	2300	2850×1265×750	2398
600×2700	24×108	2	2920×1265×750	2700	3150×1265×750	2798
650×2400	26×96	2	2620×1365×800	2800	2900×1365×800	3000
650×2700	26×108	2	2920×1365×800	3100	3200×1365×800	3280
700×2400	28×96	2	2620×1470×855	3200	2900×1470×855	3290
700×2700	28×108	2	2920×1470×855	3600	3200×1470×855	3690
750×2700	30×108	2	2920×1565×900	4000	3225×1565×900	4210
800×2700	32×108	1	2920×860×960	2400	3265×860×960	2540





# ELECTRODE PASTE



## Description

Electrode paste is a conductive material used in electric furnace equipment such as ferroalloy furnaces and calcium carbide furnaces. Electrode paste is also called self-baking electrode. It relies on the heat in the submerged arc furnace to complete the baking. Therefore, the key to the use of electrode paste is to match the electrode consumption rate with the baking rate. Due to the development of submerged arc furnace technology, it is gradually developing in the direction of large-scale and closed. During the baking process, the electrode has reduced the more conductive heat and radiant heat obtained by the open furnace type in the past to only conductive heat. Therefore, the heat obtained by the electrode from the furnace is greatly reduced, which requires improving the sintering performance of the electrode paste to make up for this deficiency.

## Applications of electrode paste

1. Metallurgical industry: electrode paste is widely used in the manufacture of electrodes in metallurgical equipment such as electric arc furnaces and submerged arc furnaces, and participates in high-temperature smelting processes. It is an important component in the production of steel and other metal materials.
2. Aluminum electrolysis industry: In the production of aluminum electrolysis, electrode paste is used to make anode and cathode electrodes to ensure the stability and efficiency of the electrolysis process.
3. Chemical industry: electrode paste is used in the chemical industry to produce electrodes for electrolytic cells, electrolytic cells and other equipment, and participates in various electrolytic reactions.
4. Carbon product manufacturing: electrode paste is also used to produce other carbon products, such as carbon bricks, carbon blocks, etc., which are used in high-temperature kilns, metallurgical furnaces and other equipment.

## Electrode paste features

1. High conductivity
2. High temperature resistance
3. Good bonding performance
4. Corrosion resistance
5. High mechanical strength

# FASTENER



## Fastener Description

In our daily life and industrial production, there is a class of seemingly inconspicuous small objects that play a vital role - they are fasteners. Various types of fasteners such as bolts, nuts, screws, washers, etc., although small in size, are indispensable connectors in various mechanical equipment, building structures and household items.

## Wide range of applications

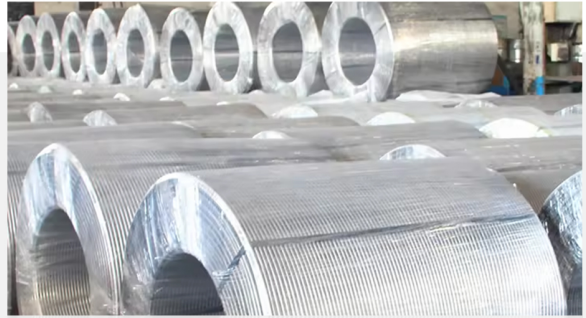
The application of fasteners covers almost all industrial fields and daily life. From the machinery industry to automobile manufacturing, from construction engineering to electronic equipment, fasteners are everywhere. In the machinery industry, fasteners are used for the assembly of equipment and the connection of parts to ensure the stable operation of equipment; in the automobile industry, fasteners are used for the assembly of car bodies, engines, and suspension systems to ensure the safety performance of automobiles; in construction engineering, fasteners are used in the construction of steel structures, bridges and infrastructure to ensure the firmness and durability of buildings.

## Future development: intelligence and environmental protection

With the advancement of science and technology and the enhancement of environmental awareness, the fastener industry is also constantly innovating. Intelligent fasteners combined with sensing technology and the Internet of Things can realize real-time monitoring of connection status and prevent loosening and failure. The application of environmentally friendly materials and processes is also reducing the environmental impact of fastener production and use, and promoting sustainable development.

YT GRAPHITE

# ALLOY CORED WIRE



## Description

Alloy Cored Wire is mainly used as a deoxidizing, decarburizing, and desulfurizing agent in alloy steel and special steel production. It is also used as a reducing agent in high-purity rare earth metal processes.

Alloy Cored Wire Type	Diameter	Filling rate	Specification
CaSi Cored Wire	9mm/13mm/16mm	120/225/330	Ca:30%min Si:55%min Al:1.5%max S:0.06%max C:1.0%max Fe:4%max P:0.05%max
CaFe Cored Wire	9mm/13mm/16mm	140/260/360	Ca:30%min Fe:68%min Al:0.8%max
C Cored Wire	9mm/13mm/16mm	55/140/210	C:98.5%min Ash:0.45%max V:0.4%max S:0.5%max H <sub>2</sub> O:0.3%max P:0.2%max
Pure Ca Cored Wire	9mm/13mm	58/155	Ca:98.5%min Mg:0.5%max Al:0.5%max
Solid Ca Cored Wire	9mm/10mm	9mm/10mm	Ca:98.5%min Mg:0.5%max Al:0.5%max
FeS Cored Wire	9mm/13mm	220/370	S:48%min Pb:0.1%max Zn:0.1%max As:0.1%max Fe:43%-45% Cu:0.05%max Moisture:0.5%max SiO <sub>2</sub> :2.5%max
CaAlFe Cored Wire	9mm/13mm	130/230	Ca:40% Fe:30% Al:30%
Pure Mg Cored Wire	9mm/13mm	80/170	Mg:99%min
SiBaCa Cored Wire	9mm/13mm	110/260	Si:40%-50% Ba:10%-20% Ca:20%-30%
FeSi Cored Wire	9mm/13mm	150/350	Si:75%min Fe:Balance



# GRAPHITE SLEEVE



## Description

Graphite sleeve is an important industrial component used in high temperature and high pressure environments, and is widely used in metallurgy, chemical industry, machinery, electronics, aerospace and other fields.

## Bottom Roller graphite carbon sleeve

Items	Unit	Values	
		Normal atmosphere carbon sleeve	High temperature carbon sleeve
Bulk Density	g/m <sup>3</sup>	1.72 Min	1.75 Min
Compressive strength	Mpa	31 Min	40 Min
Specific Resistance	μΩm	8.0 Max	8.0 Max
Ash	%	0.5 Max	0.5 Max
Carbon and impregnated matter	%	98 Min	98 Min

## Features

**High temperature resistance:** Graphite material has extremely high high temperature resistance and can maintain stable physical and chemical properties at extreme temperatures.

**Excellent thermal conductivity:** Graphite has good thermal conductivity and can quickly conduct heat away to prevent local overheating.

**Corrosion resistance:** Graphite sleeves show excellent corrosion resistance in many corrosive environments and are suitable for industries such as chemical and metallurgy.

**Self-lubricating property:** Graphite has self-lubricating properties, which can reduce friction and wear and extend the service life of equipment.

**Low thermal expansion coefficient:** Graphite material has a low thermal expansion coefficient and can maintain dimensional stability in high temperature environments.

## Applications

**Metallurgical industry:** Graphite sleeves are often used in high-temperature smelting and casting equipment in the metallurgical industry, such as arc furnaces, electrolytic cells, etc.

# ANODE SIDE



## Description

Graphitiferous cathode carbon block for aluminium electrolysis is made of graphite particle as main raw material and pitch as binder by extrusion, baking and machining processes.

Graphitized cathode carbon block for aluminium electrolysis is made of petroleum coke as raw material and pitch as binder by extrusion, baking, impregnation, rebaking graphitization and machining processes, mainly used in large aluminum electrolytic cell with electricity saving and long service life.



# ENERGY STORAGE EQUIPMENT



## Product Description

YeCarbon Shanghai Graphite Co., Ltd. can provide customers with land transport standard prefabricated cabins, container prefabricated cabins, photovoltaic inverter containers, photovoltaic energy storage power station prefabricated cabins, SVG prefabricated cabins, LNG mobile gas stations, container mobile villas, etc.

YT GRAPHITE



# MEDIUM COARSE GRAPHITE



## Description

The max grain size of medium & fine-grain special graphite is 2.0mm, 1.0mm, 0.8mm, 0.5mm, etc., with special production technology, after multiple impregnation and baking, graphitization treatment, it has high strength, good electrical and thermal conductivity and other excellent characteristics. At high temperature state, it has excellent physical and chemical properties, which can be used to produce graphite crucible for high temperature smelting, heating body of vacuum furnace and high frequency electric furnace, graphite vessel for smelting pure metal, mechanical bearing, sealing ring, piston ring and anti-corrosion equipment of chemical industry.

## Technical Specification of Medium coarse graphite

Properties	Unit	ZC-YT		ZB-YT		ZA-YT		ZXB-YT	
		Guarantee Value	Typical Value	Guarantee Value	Typical Value	Guarantee Value	Typical Value	Guarantee Value	Typical Value
Max Grain Size	mm	2.0	2.0	1.0	1.0	0.8	0.8	0.5	0.5
Bulk Density	g/cm <sup>3</sup>	≥1.71	1.73	≥1.72	1.74	≥1.73	1.75	≥1.73	1.75
Specific Resistance	μΩm	≤9.8	8.7	≤9.5	8.4	≤9.5	8.4	≤9.5	8.3
Foral Strength	MPa	≥13.5	16	≥14.5	17	≥15	18	≥16	19
Compressive Strength	MPa	≥28	33	≥30	35	≥31	37	≥32	39
Hardness	Rockwell	≥65	70	≥67	72	≥69	74	≥70	76
CTE(100-600°C)	10 <sup>-6</sup> /°C	≤3.4	2.4	3.4	2.4	≤3.4	2.4	≤3.4	2.4
Thermal Conductivity	w/m.k	≥120	138	≥125	144	≥125	144	≥128	149
Ash Content	%	≤0.2	0.1	≤0.2	0.1	≤0.2	0.1	≤0.2	0.1

## Dimension of Round Medium coarse graphite

Nominal Diameter(mm)	Actual Diameter(mm)	Length(mm)
200	204-208	1800-2200
250	254-258	1800-2200
300	305-309	1800-2200

## Dimension of Round Medium coarse graphite

Nominal Diameter(mm)	Actual Diameter(mm)	Length(mm)
350	355-359	1800-2850
400	406-410	1800-2850
450	458-462	1800-2850
500	508-512	1800-3200
600	610-614	1800-3200
650	661-665	1800-3200
700	712-716	1800-3200
750	762-766	1800-3200
800*	813-817	1800-3200

## Dimension of Square Medium coarse graphite

Width(mm)	Thickness(mm)	Length(mm)
370	370	1800-2450
420	420	1800-2450
530	530	1800-3200
630	630	1800-3200
478	430-640	2300/2800/3200/3750/4200
686	380-840	2300/2800/3200/3750/4200
636	320-640	2300/2800/3200
745	375-745	2300/2800/3200/3750/4200
810*	810	1800-3200
840*	490-840	2300/2800/3200/3750/4200
924*	490-840	2300/2800/3200/3750/4200

