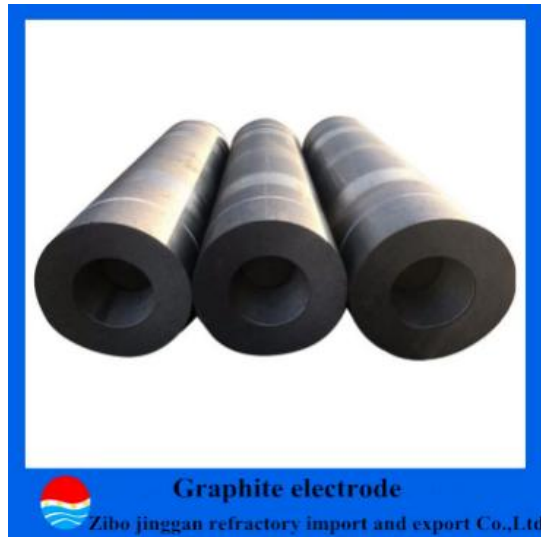


ZIBO JINGGAN REFRACTORY IMPORT AND EXPORT CO.,LTD

Address:NO. 3, Yanhe Road, Boshan, Zibo, Shandong, China
Email:wp@cnjingganrefractory.com/sdwenping@163.com
Contact:Rose Tel/Wechat:+86-13275332819
Tel:86-533-4188518 Fax:86-533-4188518

Graphite Electrode for Refining Furnace



1,Description of Graphite Electrode for Refining Furnace

The main raw materials of the product are high quality petroleum coke and grade needle coke.Sometimes the electrode body needs to be impregnated. The mechanical properties of the product are higher than those of regular power products,such as low resistivity, which permits the passage of a larger current density.

The graphite electrode products we supply are used in roughing furnace and refining furnaces. They have three quality grades: RP, HP and UHP. They are divided into various specifications according to their diameters and lengths. It is a good conductive and heat conductive high temperature product for steelmaking.

The product is black and cylindrical.

2,The specifications included in the product are as follows:

HP Dia200~400,UHP Dia400~500 and so on...

3,Product features: relatively low resistivity, higher density, higher strength, good thermal conductivity, small thermal expansion.

4,Major raw materials used in products:a part imported needle coke (Japan, USA), most domestic high-grade petroleum coke, natural graphite, coal tar pitch binder and impregnating agent.

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5,Simple process of product production: raw material calcination, proportioning, kneading, shaping, roasting, impregnation, graphitization, machining and packaging.

6,The guaranteed consumption rate per ton of steel for the products we supply is 0.5-1.0 kg/ton steel. Because of different kinds of steel smelted by different users, different operating environment and other factors, the consumption rate per ton of steel is a range value.

7,We promise:

(1) We are willing to compensate the damaged products free of charge if they cause damage to the products during transportation and affect the use of customers.

(2) In the process of rational use of products by customers, unreasonable factors, such as non-human and mechanical factors, have resulted in product breakage, loss of sheet and consumption rate exceeding customer requirements. We are willing to compensate free of charge.

5,Permissible Current Load and Current Density of Graphite Electrode Products with Different Specifications:

High Power		
Nonminal Diameter mm	Current Load (A)	Current Density (A/cm ²)
200	5500-9000	18-25
225	6500-10000	18-25
250	8000-13000	18-25
300	13000-17400	17-24
350	17400-24000	17-24
400	21000-31000	16-24
Ultra High Power		
Nonminal Diameter mm	Current Load (A)	Current Density (A/cm ²)
400	25000-40000	19-30
450	32000-45000	19-27
500	38000-55000	18-27

6,Purpose: Used in refining furnace smelting.

7,Product Index of Graphite Electrode for Refining Furnace:

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Item		High Power	
		φ200-400	φ450-600
Resistivity $\mu\Omega\cdot m$ $\leq$ (Max)	Electrode	6.5	
	Nipple	5.5	
Bulk density g/cm^3 $\geq$ (min)	Electrode	1.62	1.60
	Nipple	1.73	
Modulus of rupture Mpa $\geq$ (min)	Electrode	10.5	9.8
	Nipple	16.0	
Young's modulus Gpa $\equiv$ (Max)	Electrode	12.0	
	Nipple	16.0	
Ash % $\leq$ (Max)	Electrode	0.3	
	Nipple	0.3	
CTE(100-600℃) 100-6 /℃ $\leq$ (Max)	Electrode	2.4	
	Nipple	2.2	

8.Good feedback of product use effect,the products have been exported to Pakistan, Russia, Australia

9.The manufacturer is a professional manufacturer and can provide complete product index test reports or third-party test reports.

Do you want to find a professional supplier of refractory products?

Do you want to find a professional supplier of graphite electrodes?

Do you want to find a stable and credible supplier?

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Then let's contact with jingan company

Contact me:

Email:wp@cnjingganrefractory.com/sdwenping@163.com

TEL: 86-0533-4188518 / **FAX:** 86-0533-4188518

Rose:+86-13275332819(wechat/whatsapp number)