



凯美亚化学有限公司
KEMIACHEM CO., LIMITED.

Technical Data Sheet

Product Name	Graphite Electrodes	
Model Number	UHP HP RP	
Shape	Cylinder	
Specification	see the form below	
Application	The graphite electrode is made of high-quality petroleum coke, needle coke, coal pitch and other raw materials through calcination, intermediate crushing, screening, dosing, mixing, compression, roasting, high pressuer impregnation, graphitization, machining and other processes, has compact and even structure, good electric conduction and heat-conducting properties, high mechanical strength and strong oxidizatin corrosion resistance at high temperature, is widely usded for arc furnaces and submerged arc furnace to smelt various alloy steel, yellow phosphorus, industry silicon, brown aluminum oxide and other alloy and nonmetal materials.	
Size	Diameter: 75-700mm Length: 1000-2700mm	
Packing	Wooden Pallets with steel strips	
Delivery detail	Within 20 days after the receipt of L/C or advance payment	
Quantity / 20'FCL	20 MTS	



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石墨电极理化指标 *Indices Of physics And Chemistry Of Graphite Electrode*

名称规格 Specification		电阻率 Specific Resistance (μΩ.m)		弹性模量 Young's Modulus (Gpa)		抗折强度 Flexural Srength (Mpa)		体积密度 Bulk Density (g/cm ³)			
		不大于（max）				不小于（min）				不大于（max）	
		电极 Electrode	接头 Nipple	电极 Electrode	接头 Nipple	电极 Electrode	接头 Nipple	电极 Electrode	接头 Nipple	电极 Electrode	接头 Nipple
普通功率石墨电极 Regularpower	200-350	8.5	7.5	9.3	13.7	9.8	15.0	1.55	1.72	2.9	2.8
	400-500	8.5	7.5	9.3	13.7	6.4	15.0	1.53	1.72	2.9	2.8
CTL 抗氧化电极 Resistant Oxidation Electrode	200-350	8.0	7.5	9.3	13.7	10.0	15.0	1.56	1.72	2.9	2.8
	400-500	8.0	7.5	9.3	13.7	7.0	15.0	1.54	1.72	2.9	2.8
高功率石墨电极 HighPower	200-500	6.5	5.5	12.0	16.0	12.0	18.0	1.63	1.74	2.4	2.2
准超高石墨电极 Supper HighPower	250-500	6.0	4.8	14.0	18.0	13.0	19.0	1.65	1.75	2.0	1.7
超高功率电极 Ultra HighPower	250-500	5.8	4.5	14.0	18.0	14.0	20.0	1.68	1.77	1.5	1.4

石墨电极规格及允许偏差 *Specifications & Allowance Of Graphite Electrodes*

直径 Diameter				长度 Length	
直径 Diameter		实际直径 Actual diameter		公称长度 Length mm	允许偏差 Allowance mm
英寸 inch	毫米 mm	最大 Max	最小 Min		
8	200	205	200	1600	±100
9	225	230	225	1600	
10	250	256	251	1600/1800	
12	300	307	302	1600/1800/2000	
14	350	357	352	1600/1800/2000/2200	
16	400	409	403	1600/1800/2000/2200/2400	
18	450	460	454	1600/1800/2000/2200/2400	
20	500	511	505	1800/2000/2200/2400	



石墨电极允许电流负荷及电流密度 Current Carrying Capacity And Current Density

公称尺寸 Nominal diameter	普通功率 Regular power		CTL 抗氧化电极 CTL-Resistant oxidation electrode		高功率 High power		准超高功率 Supper high power		超高功率 Ultra high power	
mm	电流负荷 Current load A	电流密度 Current density A/cm ²	电流负荷 Current load A	电流密度 Current density A/cm ²	电流负荷 Current load A	电流密度 Current density A/cm ²	电流负荷 Current load A	电流密度 Current density A/cm ²	电流负荷 Current load A	电流密度 Current density A/cm ²
200	5500-7500	16-22	5500-7500	16-22	5500-9000	18-25				
225	6000-8000	15-21	6000-8000	15-21	7000-10500	18-25				
250	7500-10500	15-21	7500-10500	15-21	8500-13500	18-25	9000-14800	22-31	9200-15300	24-34
300	10500-14000	15-19	10500-14000	15-19	14000-18500	19-26	15000-21300	21-30	16000-24000	25-35
350	14000-19000	15-19	14000-19000	15-19	18000-24500	19-26	20000-28800	21-30	22000-33000	25-35
400	19000-24500	15-19	19000-24500	15-19	22500-33000	18-26	25300-38000	20-30	28000-43000	22-33
450	24000-29000	15-18	24000-29000	15-18	28000-43000	17-26	31400-45500	19-28	35000-48000	21-30
500	27000-34000	14-17	27000-34000	14-17	33000-51000	16-26	37000-54500	18-28	41000-58000	20-29

石墨电极圆锥形接头的尺寸 Dimensions Of Tapered Nipples

3TPI	直径 Diameter		接头 Nipple mm						接头孔 Socket mm				螺距 Pitch mm	
	inch	mm	D		L		d2	1	d1		H			
	9	225	139.70	0-0.50	203.20	0-1	90.73	0-5	<10	131.27	+0.50 0	107.60	+7 0	8.47
	10	250	155.57		220.00		103.80			147.14		116.00		
	12	300	177.16		270.90		116.90			168.73		141.50		
	14	350	215.90		304.80		150.00			207.47		158.40		
	16	400	215.90		304.80		150.00			207.47		158.40		
	16	400	241.30		338.70		169.80			232.87		175.30		
	18	450	241.30		338.70		169.80			232.87		175.30		
	18	450	273.05		355.60		198.70			264.62		183.80		
20	500	273.05	355.60		198.70		264.62			183.80				
20	500	298.45	372.60		221.30		290.02			192.20				



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接头与电极连接力距参考值 Moment For Reference For Connecting Nipples And Electrodes

电极额定直径 Diameter of Electrode		防松动力距 Moment	电极额定直径 Diameter of Electrode		防松动力距 Moment
inch	mm	N.m	inch	mm	N.m
8	200	200~260	14	350	900~1050
9	225	300~340	16	400	1000~1250
10	250	400~450	18	450	1350~1600
12	300	550~720	20	500	1700~2000