

<1> Graphite electrode:

Main material is calcined coke and coal tar pitch as binders , via burdening, mixing, extruding, baking, (dipping), graphitizing, and machining to form. This product have the advantage of low specific resistance, high electric and thermal conductivity, excellent resistance to oxidation, high thermal shock resistance and mechanical strength, can be machined easier. Our graphite electrode products including RP, HP, and UHP. Widely apply into EAC smelting for alloy steel and other metallic or nonmetallic materials. We can also painting the electrode with wax, oil etc.as your required.

Technical Property of Graphite Electrode (RP):

Item		Unit	ND/Regular Size (mm)					
			60-130	150-200	200-300	350-400	450-500	550-600
Specific Resistance	Electrode	$\mu\Omega\text{m}$	≤ 8.5	≤ 9.0	≤ 6.5	≤ 6.8	≤ 6.5	≤ 7
	Nipple		≤ 6.5	≤ 5.5	≤ 5.5	≤ 5.5	≤ 5.5	≤ 5.5
Bending Strength	Electrode	Mpa	≥ 9.8	≥ 9.8	≥ 12	≥ 11	≥ 12.5	≥ 11
	Nipple		≥ 13.0	≥ 13.0	≥ 15	≥ 18	≥ 17	≥ 16
Elastic Modulus	Electrode	Gpa	≤ 9.3	≤ 9.3	≤ 12	≤ 10	≤ 10	≤ 10
	Nipple		≤ 14.0	≤ 14.0	≤ 16	≤ 16	≤ 16	≤ 16
Bulk Density	Electrode	g/cm^3	≥ 1.58	≥ 1.58	≥ 1.64	≥ 1.64	≥ 1.64	≥ 1.64
	Nipple		≥ 1.72	≥ 1.72	≥ 1.74	≥ 1.74	≥ 1.74	≥ 1.74
Ash Content	Electrode	%	≤ 0.5	≤ 0.5	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3
	Nipple		≤ 0.5	≤ 0.2	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3
C.T.E	Electrode	10-6/	2.9	2.9	2.9	2.9	2.9	2.9
	Nipple	$^{\circ}\text{C}$	2.7	2.7	2.8	2.8	2.8	2.8

Technical Property of Graphite electrode(HP):

Item		Unit	ND/Regular Size (mm)			
			200-300	350-400	450-500	550-600
Specific Resistance	Electrode	$\mu\Omega\text{m}$	≤ 6.5	≤ 6.8	≤ 6.5	≤ 7
	Nipple		≤ 5.5	≤ 5.5	≤ 5.5	≤ 5.5

Bending Strength	Electrode	Mpa	≥12	≥11	≥12.5	≥11
	Nipple		≥15	≥18	≥17	≥16
Elastic Modulus	Electrode	Gpa	≤12	≤10	≤10	≤10
	Nipple		≤16	≤16	≤16	≤16
Bulk Density	Electrode	g/cm ³	≥1.64	≥1.64	≥1.64	≥1.64
	Nipple		≥1.74	≥1.74	≥1.74	≥1.74
Ash Content	Electrode	%	≤0.3	≤0.3	≤0.3	≤0.3
	Nipple		≤0.3	≤0.3	≤0.3	≤0.3

Technical Property of Graphite electrode (UHP):

Item		Unit	ND/Regular Size (mm)	
			250-400	450-500
Specific Resistance	Electrode	μΩM	4.8-5.8	4.8-6.2
	Nipple		4.0-4.5	4.0-4.5
Bending Strength	Electrode	Mpa	≥12	≥12
	Nipple		≥18	≥18
Elastic Modulus	Electrode	Gpa	≤14	≤14
	Nipple		≤18	≤18
Bulk Density	Electrode	g/cm ³	1.66-1.74	1.66-1.74
	Nipple		≥1.76	≥1.76
C.T.E	Electrode	10-6/°C	1.2-1.4	1.2-1.4
	Nipple		1.0-1.2	1.0-1.2
Ash Content	Electrode	%	≤0.3	≤0.3
	Nipple		≤0.3	≤0.3

<2> High purity graphite (that is high purity, high density and high strength)

Main material is calcined coke (after grinding twice with low ash) and coal tar pitch as binders , via burdening, mixing, molding extrude, baking, (dipping), graphitizing (above 2300 degrees), and machining to form. This product have good property of thermal resistance, high electric and thermal conductivity, high lubricity and excellent mechanical character. Widely used in electron, machinery, chemical industry, etc. Appling as rectifier graphite anode, mold for electronic agglomeration, constantly casting graphite crystallized, accurate casting, the melting of semiconductor and rare metals, graphite crucible, mechanical seal in some fields as chemical industry, electrospark machining discharge anode, etc.

Technical property chart of high purity graphite

Category	Item	No.	Ash Content (%)	Bulk Density (g/cm ³)	Compressive Strength (Mpa)	Flexural Strength (Mpa)	Porosity (%)
	Property						
GM1		GM11	0.01	1.83	60	28	18
		GM12	0.01	1.75	45	25	22
		GM13	0.01	1.60	30	20	25
GM2		GM21	0.05	1.83	60	28	18
		GM22	0.05	1.75	45	23	22
		GM23	0.05	1.60	30	20	25
GM3		GM31	0.10	1.83	60	28	18
		GM32	0.10	1.75	45	23	22
		GM33	0.10	1.60	30	20	25

Note: this products can be machined into special-shaped products with various shape and sizes.

The following picture is the application of this high purity graphite

Special-shaped graphite products

Electronic agglomeration graphite

Constantly casting graphite crystallizer copper

Constantly casting graphite crystallizer for iron

Graphite for monocrystal

Electrospark machining graphite

<3>Graphite crucible and special shaped graphite

Our company owns a full set of equipment, including turning, sawing, milling, planning and grinding etc. So we can machine various special-shaped products according your requirement with your drawing. The following are the pics of these products

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