

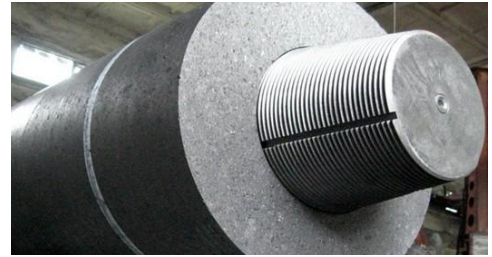


Graphite Electrodes

Quality, Service, and Consistency

Graphite Electrodes - 3 to 28 inch diameter

Description: Grade PIR is primarily the material of choice for higher density, better mechanical strength, and less porosity than grade PF. Grade PIR is a popular multi-purpose grade.



Nominal Diameter		Full Tolerance		Nominal Length	
		min	min		
mm	inch	mm	mm	mm	inch
75	3	73	78	1000 / 1200 / 1500 / 1800	36 / 48 / 60 / 72
100	4	98	103	1200 / 1500 / 1800	48 / 60 / 72
125	5	127	132	1200 / 1500 / 1800	48 / 60 / 72
150	6	149	154	1200 / 1500 / 1800	48 / 60 / 72
200	8	200	205	1500 / 1800	60 / 72
225	9	225	230	1500 / 1800	60 / 72
250	10	251	256	1500 / 1800	60 / 72
300	12	302	307	1500 / 1800 / 2100	60 / 72 / 84
350	14	352	357	1500 / 1800 / 2100	60 / 72 / 84
400	16	403	409	1500 / 1800 / 2100 / 2400	60 / 72 / 84 / 96
450	18	454	460	1500 / 1800 / 2100 / 2400	60 / 72 / 84 / 96
500	20	505	511	1800 / 2100 / 2400 / 2700	72 / 84 / 96 / 110
550	22	556	562	1800 / 2100 / 2400 / 2700	72 / 84 / 96 / 110
600	24	607	613	2100 / 2400 / 2700	84 / 96 / 110
650	26	657	663	2400 / 2700	96 / 110
700	28	728	714	2400 / 2700	96 / 110

GraphiteElectrodes Rev.0

NOTE: The above data should be regarded as general information, not guaranteed specification limits.

This information is not to be taken as a warranty of representation for which we will assume legal responsibility nor permission or recommendation to practice any patented invention without license. It is offered solely for your consideration, investigation and verification.





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ELECTRODE LENGTH			
Nominal Length		Full Tolerance	
		min	max
mm	inch	mm	mm
1000	36	900	1110
1200	48	1100	1250
1500	60	1400	1600
1800	72	1700	1905
2100	84	1975	2210
2400	96	2275	2515
2700	110	2550	2895

Specification	Unit of Measure	3" - 10" Premium	12" - 24" Premium	8" - 18" UHP	20" - 24" UHP	28" - 30" UHP
Apparent Density	g/cm ³	1.62 – 1.70	1.62 – 1.70	1.65 – 1.75	1.67-1.75	1.68-1.75
Flexural Strength	MPa	1700-2700	6-9	6-9	9-14	9-14
Young's Modulus	kN/mm ²	8-12	8-12	9-16	9-16	9-16
Electrical Resistance	μΩm	5.5-6.5	5.5-6.5	4.5 – 5.5	4.5 – 5.5	4.5 – 5.2
Coefficient of Thermal Expansion	X10 ⁶ /F°	1.2-1.7	1.2-1.7	1.1-1.4	1.0-1.3	1.0-1.2
Ash (Max.)	%	0.2	0.2	0.2	0.2	0.2

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