



# Graphite Electrodes

## Graphite Electrodes - 3 to 28 inch diameter

Graphite electrodes carry the electric current to create an arc that generates the heat required to melt and/or process various materials in electric arc furnaces (EAF). GES-AGM offers several grades and sizes of electrodes to match the customers most demanding requirements for their particular process.



Nominal Diameter		Full Tolerance		Nominal Length	
		min	max		
mm	inch	mm	mm	mm	inch
75	3	75	78	1000 / 1200 / 1500 / 1800	36 / 48 / 60 / 72
100	4	100	103	1200 / 1500 / 1800	48 / 60 / 72
125	5	125	128	1200 / 1500 / 1800	48 / 60 / 72
150	6	150	153	1200 / 1500 / 1800	48 / 60 / 72
200	8	200	203	1500 / 1800	60 / 72
225	9	225	228	1500 / 1800	60 / 72
250	10	250	253	1500 / 1800	60 / 72
300	12	300	303	1500 / 1800 / 2100	60 / 72 / 84
350	14	350	353	1500 / 1800 / 2100	60 / 72 / 84
400	16	400	403	1500 / 1800 / 2100 / 2400	60 / 72 / 84 / 96
450	18	450	453	1500 / 1800 / 2100 / 2400	60 / 72 / 84 / 96
500	20	500	503	1800 / 2100 / 2400 / 2700	72 / 84 / 96 / 110
550	22	550	553	1800 / 2100 / 2400 / 2700	72 / 84 / 96 / 110
600	24	600	603	2100 / 2400 / 2700	84 / 96 / 110
650	26	650	653	2400 / 2700	96 / 110
700	28	700	703	2400 / 2700	96 / 110

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



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ELECTRODE LENGTH			
Nominal Length		Full Tolerance	
		min	max
mm	inch	mm	mm
1000	36	900	1110
1200	48	1100	1310
1500	60	1400	1610
1800	72	1689	1915
2100	84	1969	2220
2400	96	2273	2525
2700	110	2526	2906

ELECTRODE PROPERTIES				
		Premium	XP	UHP
Diameter	mm	75 – 450	75 – 550	200 – 700
	inch	3 – 18	3 – 22	8 – 28
Density	g/cm <sup>3</sup>	1.62 – 1.65	1.64 – 1.68	1.67 – 1.73
Resistivity	$\mu\Omega$ m	6.5 – 7.0	5.5 – 6.0	4.5 – 5.0
Ash	%	0.2 – 0.4	0.2 – 0.4	0.2 – 0.4
Bending Strength	Mpa	8.0 – 10.0	9.0 – 12.0	10.0 – 13.0
C.T.E.	( 100~600°C)	2.5 – 2.9	2.0 – 2.4	1.5 – 1.9

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