

# GRAPHITE ELECTRODES

## تأمین انواع الکتروڈ گرافیتی نوع UHP Graphite Electrodes

### Properties

Item	Unit	Nominal Diameter					
		UHP		HP		RP	
		$\leq \phi$ 400	$\geq \phi$ 450	$\leq \phi$ 400	$\geq \phi$ 450	$\leq \phi$ 300	$\geq \phi$ 350
Resistance	E	$\leq 5.5$		$\leq 6.5$		$\leq 8.5$	
	N	$\leq 4.5$		$\leq 5.5$		$\leq 6.5$	
Bending Strength	E	$\geq 11.0$		$\geq 10.5$	$\geq 9.8$	$\geq 8.5$	$\geq 7.0$
	N	$\geq 20.0$		$\geq 16.0$		$\geq 15.0$	
Elastic Modulus	E	$\leq 14.0$		$\leq 12.0$		$\leq 9.3$	
	N	$\leq 18.0$		$\leq 16.0$		$\leq 14.0$	
Bulk Density	E	$\geq 1.66$	$\geq 1.67$	$\geq 1.62$	$\geq 1.60$	$\geq 1.53$	$\geq 1.52$
	N	$\geq 1.75$		$\geq 1.73$		$\geq 1.69$	
CTE. (100-600 °C)	E	$\leq 1.5$		$\leq 2.4$		$\leq 2.9$	
	N	$\leq 1.4$		$\leq 2.2$		$\leq 2.8$	
Ash	%	$\leq 0.3$		$\leq 0.3$		$\leq 0.5$	

specification as per customer request

مشخصات فنی بر اساس درخواست مشتری قابل تأمین می باشد.



# GRAPHITE ELECTRODES

## Graphite Electrodes UHP تأمين انواع الكترود گرافیتی نوع UHP

### Graphite Electrodes Diameter Tolerance

Unit: mm

Nominal Diameter		Actual Diameter (D)			Nominal Length
Inches	mm	Max	Min	Rough Spot (B)	
8"	200	205	201	197	1600/1800
9"	225	230	225	222	1600/1800
10"	250	256	251	249	1600/1800
12"	300	307	302	299	1600/1800/1900/2000
14"	350	357	352	349	1600/1800/1900/2000/2200
16"	400	409	403	400	1600/1800/1900/2000/2200/2400
18"	450	460	454	451	1600/1800/1900/2000/2200/2400
20"	500	511	505	502	1800/1900/2000/2200/2400
22"	550	562	556	553	1800/2000/2200/2400
24"	600	613	607	604	2000/2200/2400/2700
26"	650	663	657	654	2400/2700/3000
28"	700	714	708	705	2400/2700/3000

### Graphite Electrodes Length Tolerance

Unit: mm

Nominal Diameter	Tolerance		Shorter Length Tolerance	
	Max	Min	Max	Min
1600	+100	-100	-100	-275
1800	+100	-100	-100	-275
1900	+100	-100	-100	-275
2000	+100	-100	-100	-275
2200	+100	-100	-100	-275
2400	+100	-100	-100	-275
2700	+150	-150	-150	-300
3000	+150	-150	-150	-300

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## Graphite Electrodes UHP نوع گرافیتی نواع الکتروڈ

### Dimension of Tapered Nipples Unit: mm

Diameter		Nipple			I	Socket		Pitch
		D	d2	L		d1	H	
		Tolerance		≤		Tolerance		
(-0.30 ~ 0)	(-1~0)	(0~0.3)	(0~7)					
3TPI	mm	inches						8.47
	225	9"	139.70	91.22	203.20	141.22	107.60	
	250	10"	155.57	104.20	220.00	157.09	116.00	
	300	12"	177.16	117.39	270.90	148.68	141.50	
	350	14"	215.90	150.48	304.80	217.42	158.40	
	400	16"	215.90	150.48	304.80	217.42	158.40	
	400	16"	241.30	170.23	338.70	242.82	175.30	
	450	18"	241.30	170.23	338.70	242.82	175.30	
	450	18"	273.05	199.17	355.60	274.57	183.80	
	500	20"	273.05	199.17	355.60	274.57	183.80	
	500	20"	298.45	221.73	372.60	299.97	192.20	
	550	22"	298.45	221.73	372.60	299.97	192.20	
3TPIL	350	14"	215.90	144.85	338.70	217.42	175.30	
	400	16"	241.30	167.43	355.60	242.82	183.80	
	450	18"	273.05	182.23	457.30	274.57	234.60	
4TPI	200	8"	122.24	81.48	177.80	115.92	94.90	
	225	9"	139.70	98.94	177.80	133.38	94.90	
	250	10"	152.40	109.52	190.50	146.08	101.30	
	300	12"	177.80	130.69	215.90	171.48	114.00	
	350	14"	203.20	149.74	254.00	196.88	133.00	
	400	16"	222.25	160.32	304.80	215.93	158.40	
	450	18"	241.30	179.37	304.80	234.98	158.40	
	500	20"	269.88	199.49	355.60	263.56	183.80	
	550	22"	298.45	228.06	355.60	292.13	183.80	
	600	24"	317.50	247.11	355.60	311.18	183.80	
4TPIL	650	26"	355.60	268.27	457.20	349.28	234.60	
	700	28"	374.65	287.32	457.20	368.33	234.60	
	300	12"	177.80	124.34	254.00	171.48	133.00	
	350	14"	203.20	141.27	304.80	196.88	158.40	
	400	16"	222.25	151.86	355.60	215.93	183.80	
	450	18"	241.30	170.91	355.60	234.98	183.80	
	500	20"	269.88	182.55	457.20	263.56	234.60	
	550	22"	298.45	211.12	457.20	292.13	234.60	
600	24"	317.50	230.17	457.20	311.18	234.60		
650	26"	355.64	251.38	558.80	349.28	285.40		
700	28"	374.65	270.39	558.80	368.33	285.40		