## SHP GRAPHITE ELECTRODES



Our SHP graphite electrodes are manufactured using the same high quality processes as our UHP products. To provide a product that can be used more cost effectively in LMF applications, some of the raw materials in SHP graphite electrodes are of a slightly lower grade. While the consumption rate is a bit higher than that of UHP graphite electrodes, their lower cost tends to offset the difference without an impact on operational functionality.

## **TECHNICAL PROPERTIES**

ltem	Unit	10" - 20″	
		Electrode	Nipple
Ash Content	%	≤ 0.2	≤ 0.2
Specific Resistance	μΩm	≤ 6.0	≤ 4.8
Flexural Strength	Мра	≥ 13.0	≥ 19.0
Elastic Modulus	Gpa	≤ 14.0	≤ 18.0
Bulk Density	g/cm3	≥ 1.65	≥ 1.75
CTE	X10-6 /°C (20 – 600°C)	≤ 2.0	≤ 1.7

## **CURRENT-CARRYING CAPACITIES**

Nominal Diameter (inch)	Current (A)	Current Density (A/cm3)
10	9,000 - 14,800	22 - 31
12	15,000 - 21,300	21 - 30
14	20,000 - 28,800	21 - 30
16	25,300 - 38,000	20 - 30
18	31,400 – 45,500	19 - 28
20	37,000 - 54,500	18 - 28

## **AVAILABLE SIZES**

Nominal Diameter	Actual [	Diameter	Standard Length	Pitch
	Min	Max	Stanuaru Length	
10	9.84	10.08	64/72	
12	11.89	12.09	64/72/80	
14	13.86	14.06	64/72/80/84	
16	15.87	16.10	64/72/80/84/96	3 or 4 TPI
18	17.87	18.11	64/72/80/84/96	
20	19.88	20.12	72/80/84/96	

\* Units are in inches. Pin/sockets are machined to international standards. Sizes can be customized.

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