



HEADQUARTERS

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Cathode & Sidewall Block Specifications

Description: Our grade, GB-G1, is made from 100% Petroleum Coke. In producing this grade, it is formed by vibration, heat treated by baking, and graphitized.

Properties	UOM	Test Standard	GB-G1	
			Min	Max
Real Density	g/cm ³	ASTM C-838	2.18	2.24
Bulk Density	g/cm ³	ASTM C-559	1.66	1.72
Porosity	%	ASTM C-830	-	18
Compressive Strength	N/mm ²	ASTM C-695	23	-
Flexural Strength	N/mm ²	ASTM C-651	8	-
Young's Modulus	N/mm ²	ASTM C-747	-	10
Electrical Resistivity	μΩm	ASTM C-611	7	12
Coefficient of Thermal Expansion	1/K•10 ⁻⁶	ASTM E-228	-	3.8
Thermal Conductivity @ 30°C	W/mK	ASTM C-201	95	-
Ash Content	%	ASTM C-561	-	0.6
Sodium Expansion	%	Rapoport	-	0.4

Note: Tolerances to be confirmed per customer drawings