



HEADQUARTERS

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Cathode & Sidewall Block Specifications

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

Properties	UOM	Test Standard	GB-G	
			Min	Max
Real Density	g/cm ³	ASTM C-838	2.17	2.24
Bulk Density	g/cm ³	ASTM C-559	1.58	1.66
Porosity	%	ASTM C-830	-	20
Compressive Strength	N/mm ²	ASTM C-695	18	-
Flexural Strength	N/mm ²	ASTM C-651	9	-
Young's Modulus	N/mm ²	ASTM C-747	-	8
Electrical Resistivity	μΩm	ASTM C-611	10	13
Coefficient of Thermal Expansion	1/K•10 ⁻⁶	ASTM E-228	-	3.5
Thermal Conductivity @ 30°C	W/mK	ASTM C-201	80	-
Ash Content	%	ASTM C-561	-	0.6
Sodium Expansion	%	Rapoport	-	0.4

Note: Tolerances to be confirmed per customer drawings