



HEADQUARTERS

5628 Clifford Circle • Birmingham, AL 35210 U.S.A.
TELEPHONE +1 (866) 472-1861 • FAX +1 (205) 838-0822

Cathode & Sidewall Block Specifications

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

Properties	UOM	Test Standard	GB-GB	
			Min	Max
Real Density	g/cm ³	ASTM C-838	2.08	2.15
Bulk Density	g/cm ³	ASTM C-559	1.59	1.66
Porosity	%	ASTM C-830	-	22
Compressive Strength	N/mm ²	ASTM C-695	25	-
Flexural Strength	N/mm ²	ASTM C-651	10	-
Young's Modulus	N/mm ²	ASTM C-747	-	10
Electrical Resistivity	μΩm	ASTM C-611	15	22
Coefficient of Thermal Expansion	1/K•10 ⁻⁶	ASTM E-228	-	3.8
Thermal Conductivity @ 30°C	W/mK	ASTM C-201	30	-
Ash Content	%	ASTM C-561	-	1.2
Sodium Expansion	%	Rapoport	-	0.5

Note: Tolerances to be confirmed per customer drawings