



HEADQUARTERS

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Cathode & Sidewall Block Specifications

Description: Our grade, GB-8515, is primarily made of anthracite coal. The grade is 85% ECA and 15% Graphite. In producing this grade, it is formed by vibration and heat treated by baking.

Properties	UOM	Test Standard	GB-8515	
			Min	Max
Real Density	g/cm ³	ASTM C-838	1.90	1.94
Bulk Density	g/cm ³	ASTM C-559	1.56	1.60
Porosity	%	ASTM C-830	-	20
Compressive Strength	N/mm ²	ASTM C-695	32	-
Flexural Strength	N/mm ²	ASTM C-651	7.5	-
Young's Modulus	N/mm ²	ASTM C-747	-	10
Electrical Resistivity	μΩm	ASTM C-611	28	40
Coefficient of Thermal Expansion	1/K•10 ⁻⁶	ASTM E-228	-	4.0
Thermal Conductivity @ 30°C	W/mK	ASTM C-201	7	-
Ash Content	%	ASTM C-561	-	7
Sodium Expansion	%	Rapoport	-	0.7

*Note: Tolerances to be confirmed per customer drawings