

SIM-GD Cathode Blocks

Graphitized, carbon cathode blocks



		Typical Value	Standard Deviation
Apparent Density: <i>ISO 12985.1</i>	..... kg/m ³	1650	30
	..... lbs/cu.ft.	103	
Real Density: <i>ISO 21687</i>	..... kg/m ³	2200	20
	..... lbs/cu.ft.	137	
Total Porosity:	..... %	26	2
Open Porosity: <i>ISO 12985.2</i>	..... %	19	2
Specific Electrical Resistivity: <i>ISO 11713</i> 20°C (68°F)	..... μΩm	10	2
Compressive Strength: <i>ISO 18515</i>	..... MPa	24	4
	..... lbs/sq.in.	3480	
Flexural Strength: <i>ISO 12986.1</i>	..... MPa	11	3
	..... lbs/sq.in.	1595	
Ash Contents: <i>ISO 8005</i>	..... %	0.2	0.15
Thermal Conductivity: <i>ISO 12987</i>	(W/m K) @ Room Temperature (25°C / 77°F)	115	5
Coefficient of Thermal Expansion: <i>ISO 14420</i> 20°C to 900°C (68°F to 1652°F)	..... 10 ⁻⁶ K ⁻¹	3.0	0.5
Young's Modulus: <i>YS/T 63.13</i>	..... GPa	2.1	0.2

Sodium Expansion:
ISO 15379.2 % 0.2 0.1

Raw Materials: Petroleum Coke..... % 100

Dimensional Tolerances: Length ± 5 mm
Width ± 3 mm
Height..... ± 3 mm
Slots for collector bars: (All directions)..... ± 3 mm

Max. Sizes Cathode Blocks:: Length 4000 mm
Width 800 mm
Height..... 540 mm

HS Tariff Number: 85451900
(Harmonized Commodity Description and Coding System)

Packing: All **cathode blocks** are packed on pallets, wrapped in plastic foil and then packed into crates according to international standards.



All blocks are produced by the vibration with vacuum production method.

Measurements are made parallel to pressing direction.

Blocks can be supplied in strict accordance with customer's drawings and specifications.

The values as per this data sheet are based upon typical, average test results.

No warranty or guarantee is implied on the data which are given in good faith.

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**An ISO-9001, ISO-14001 and
OHSAS-18001 certified company**

