

SIM-GD Cathode Blocks

Graphitized, carbon cathode blocks



		Typical Value	Standard Deviation
Apparent Density: <i>ISO 12985.1</i>	 kg/m ³ lbs/cu.ft.	1650 103	30
Real Density: <i>ISO 21687</i>	 kg/m ³ lbs/cu.ft.	2200 137	20
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 lbs/sq.in.	24 3480	4
Flexural Strength: <i>ISO 12986.1</i>	 MPa lbs/sq.in.	11 1595	3
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:			
(Harmonized Commodity Description and Coding System)		85451900	

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.

simonsen a/s

Møgelvangs Plads 7
DK-7900 Nykøbing Mors
DANMARK
Tel: Int. +45 9669 1300
Fax: Int. +45 9669 1301
simonsen@simonsen.eu
WebSite: www.simonsen.eu



Producer:

**SPIC NINGXIA ENERGY ALUMINIUM
QINGXIN CARBON CO. LTD.**

Qingtongxia City
Ningxia Province 751603
P.R. of China

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

