



BeiJing North Refractories Co.Ltd.

Tel: 0086 - 10 - 62151268 Fax: 0086 - 10 - 62151268 Email: sales@northrefractories.com

Add: 11th Lucky Tower B, Dongsanhuan North Road, Chaoyang District, BJ, China.

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HIGH DENSITY CALCIUM SILICATE INSULATION BOARDS

STRUCTURAL INSULATION *NON-FERROUS METALS CASTING* FIRE PROTECTIONS

Items	Unit	NR - 60	NR - 75G	NR-80	NR - 80CS	NR-85	NR-95	NR-120
Classification Temp	°C	1000	1000	1000	1000	1000	1000	1000
Color	-	white	white	grey	grey	white	white	white
Fiber Type	-	Glass fiber	Glass fiber	Carbon fiber	Carbon fiber	Glass fiber	Glass fiber	Glass fiber
Density	Kg/m ³	600	800	820	1000	860	950	1200
Modulus of rupture	MPa	≥ 4	≥ 8	≥ 8	≥ 18	≥ 7	≥ 10	≥ 11
C.C.S	MPa	≥ 7	≥ 15	≥ 16	≥ 30	≥ 15	≥ 18	≥ 24
Thermal Conductivity Mean Temp.	W/m ² K							
	200°C	0.08	0.09	0.09	0.12	0.14	0.13	0.15
	400°C	0.10	0.10	0.11	0.14	0.12	0.15	0.20
	800°C	0.10	0.12	0.15	0.20	0.16	0.22	0.25
Loss on ignition	%	<3	<5	<3	<3	<5	<5	<5
Thermal shrinkage 12hr		1000°C	1000°C	1000°C	1000°C	1000°C	1000°C	1000°C
@ Length or Width	%	0.20	0.2	0.20	0.20	0.2	0.4	0.40
@ Thickness	%	1.00	1.2	1.00	1.00	1.3	1.2	1.4
Screw Holding Strength @ 22mm penetration	kg	70	100	105	110	110	120	130
pH value	-	10	10	10	10	10	10	10
Coefficient of Thermal	/°C	6.4*10-6	6.5*10-6	6.4*10-6	6.4*10-6	6.4*10-6	6.3*10-6	6.1*10-6
Standard Sizes	1200 X 600 mm , 1200 X 1200 mm , 2400 x 1200mm, 2520 x 1200mm							
Available Thickness	19, 25, 27, 32, 38.1 44, 51.4, 63, 76.1, 101.6, 120mm							
Advantages	Low thermal conductivity, Non - wetting, Excellent mechanical strength, Asbestos free, easy to install, dimensional							
Applications	• Dip tubes • Pouring spouts • Hot - top rings • Stopper pins • End dams • Floats • Launderers, Holding furnace insulation linings, ladle							

Note: The physical and chemical properties listed represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice