



NON-ASBESTOS CALCIUM SILICATE INSULATION PRODUCTS (1000-1100 °C)

PHYSICAL PROPERTIES

Item	Unit	HD-II-13	HD-II-17	HD-II-22	HD-II-30
Bulk density (max.)	Kg/m ³	135	170	220	300
Flexural strength (min.)	Mpa	0.2	0.3	0.35	0.4
Compressive strength at 5% deformation (min)	Mpa	0.4	0.6	0.7	0.8
Linear shrinkage (max.)	%	2			
Thermal conductivity (max.) (average temp.70 °C)	W/m.k	0.049	0.055	0.058	0.07
Service temp. (max.)	°C	1000 – 1100			
Moisture Content	%	5			

■ **THERMAL CONDUCTIVITY EQUATION** $0.0475+0.000102 t (\leq 170\text{kg/m}^3)$, $0.051+0.000101t (>170\text{kg/m}^3)$

■ **CHARACTERISTIC**

1. High strength: the strongest one among the inorganic thermal insulation materials with the similar density.
2. Thermal-resistance: Non-deformation at the temperature used.
3. Thermal insulation: lower thermal conductivity than other hard mass thermal insulation material.
4. Asbestos-free.

Note: Various Sizes available and also can be produced according to special size requirement. Different Shapes are also available upon request.

TEST CONDITIONS:

Density: According to ASTM C303-98.

Chemical Resistance: According to ASTM C871-95.

Heat Shrinkage: According to ASTM C356

Compressive Strength: According to ASTM C165

Flexural Strength: According to ASTM C203

Other Standards that Apply are ASTM C533 and GB/T 10699-1998.

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NON-ASBESTOS CALCIUM SILICATE INSULATION PRODUCTS (650 °C)

PHYSICAL PROPERTIES

Item	Unit	HD-I-17	HD-I-22	HD-I-35
Bulk density (max.)	Kg/m ³	170	220	500
Flexural strength (min.)	Mpa	0.25	0.30	1.0
Compressive strength at 5% deformation (min)	Mpa	0.5	0.6	2.0
Linear shrinkage (max.)	%		2	
Thermal conductivity (max.) (average temp.70 °C)	W/m.k	0.052	0.056	0.1
Service temp. (max.)	°C		650	
Moisture Content (Max.)	%		7.5	

■ **THERMAL CONDUCTIVITY EQUATION** $0.044+0.00011 t (\leq 170\text{kg/m}^3)$, $0.048+0.00011t (>170\text{kg/m}^3)$

■ **CHARACTERISTIC**

1. High strength:the strongest one among the inorganic thermal insulation materials with the similar density.
2. Thermal-resistance: Non-deformation at the temperature used.
3. Thermal insulation: lower thermal conductivity than other hard mass thermal insulation material.
4. Asbestos-free.

Note: Various Sizes available and also can be produced according to special size requirement. Different Shapes are also available upon request.

TEST CONDITIONS:

Density: According to ASTM C303-98.

Chemical Resistance: According to ASTM C871-95.

Heat Shrinkage: According to ASTM C356

Compressive Strength: According to ASTM C165

Flexural Strength: According to ASTM C203

Other Standards that Apply are ASTM C533 and GB/T 10699-1998.

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