

Ceramic Fiber Heating Modules



Product data sheet

Project(Refractory fiber)	HR-1500
Classified Temperature , °C (°F)	1500(2732)
Color	white
Continuous Use Temperature, °C(°F)	1200
Density, kg/m ³	300/350/400
Permanent Linear Shrinkage, %	
1100°C (2012°F)	-
1400°C (2550°F)	< 0.5
1500°C (2730°F)	-
1600°C (2910°F)	-
1700°C (3090°F)	-
1800°C (3270°F)	-
Loss of Ignition, LOI, %	< 4
Chemical Composition, %	
Alumina, Al ₂ O ₃	61.55
Silica, SiO ₂	37.53
Zirconia oxide, ZrO ₂	0.18
Calcium oxide + Magnesium oxide, CaO + MgO	-
Other	-
*working temperature of the oxidizing atmosphere for a longtime , before using the special environment for technical communication .	

Product Availability

Ceramic Fiber Boards are manufactured and available globally, but packaging, thickness, width and length vary by region.

Please contact your regional Hengrui Advanced Materials - Thermal Ceramics representative to support providing specific packaging availability for your local business needs.



Hengrui high temperature energy saving materials co.,LTD
Zheshang Industrial Park.Xiping county,Zhumadian city,China
www.ceramicfiberfactory.com
Email: thermalinsulation@icloud.com

Ceramic Fiber Heating Modules



Product data sheet

Product Availability

Project (metallic heating elements)	Kanthal APM	Kanthal A-1	HRE	Cr20Ni80
Classified Temperature , °C (°F)	1425(2560)	1400(2550)	1400(2550)	1200(2550)
Continuous Use Temperature, °C(°F)	1200	1200	1100	1000
Nominal composition, %				
Cr	22	22	25	
Al	5.8	5.8	6.0	
Fe	balance	balance	balance	
Ni	-	-	-	
Density (g/cm ³)	7.1	7.1	7.1	
Resistivity at 20°C (mm ² /m)	1.45	1.45	1.45	
maximum permissible temperatures in various atmosphere				
oxidizing:	APM	A-1	HRE	Cr20Ni80
Air,dry	1400	1400	1400	1200
Air,moist	1200	1200	1200	1150
Neutral:				
N ₂ , Nitrogen	1200	1200	950	1250
Ar,Argon	1400	1400		1250
Exothermic 20 CO, 40 H ₂ . 40 N ₂	1050	1050		1100
H ₂ , Hydrogen	1400	1400		1250
Cracked ammonia:75 H ₂ , 25 N ₂	1200	1200		1250
Vacuum:10 ⁻³ dry	1150	1150		1100

Ceramic Fiber Boards are manufactured and available globally, but packaging, thickness, width and length vary by region.

Please contact your regional Hengrui Advanced Materials - Thermal Ceramics representative to support providing specific packaging availability for your local business needs.



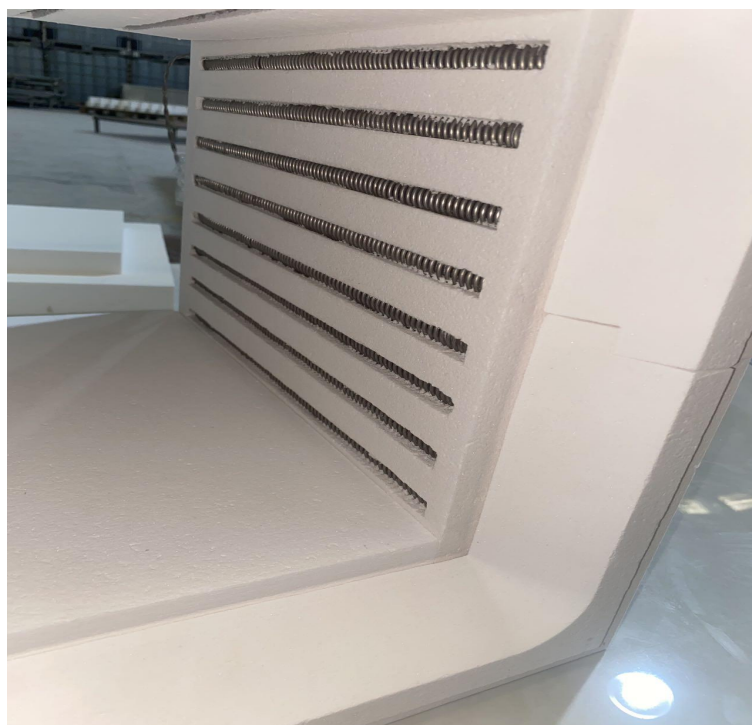
Hengrui high temperature energy saving materials co.,LTD
 Zheshang Industrial Park.Xiping county,Zhumadian city,China
www.ceramicfiberfactory.com
 Email: thermalinsulation@icloud.com

Ceramic Fiber Heating Modules



Application

- .Laboratory furnace chamber
- .Diffusion furnace
- .Annealing furnace
- .Sintering furnace
- .Carburizing furnace
- .Galvanizing furnaces



Product Availability

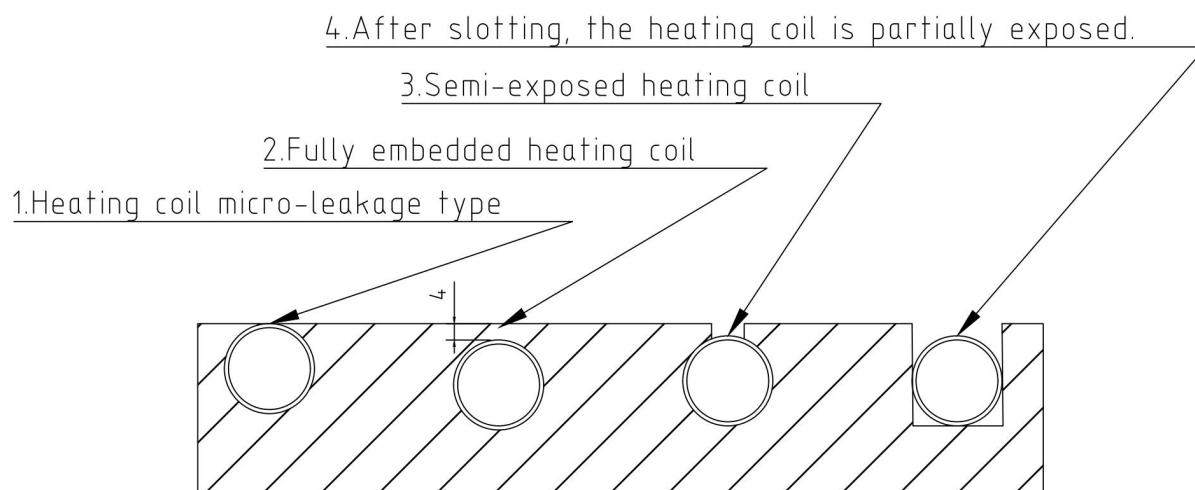
Ceramic Fiber Boards are manufactured and available globally, but packaging, thickness, width and length vary by region.

Please contact your regional Hengrui Advanced Materials - Thermal Ceramics representative to support providing specific packaging availability for your local business needs.



Hengrui high temperature energy saving materials co.,LTD
Zheshang Industrial Park.Xiping county,Zhumadian city,China
www.ceramicfiberfactory.com
Email: thermalinsulation@icloud.com

Four Fixing Methods of Resistance Wire



Advantages of semi-exposed heating coil:

1. The heating wire is securely fixed by vacuum adsorption, making it less likely to pop out.
2. The heating wire is not exposed on the surface, reducing the risk of electric shock.
3. With heat dissipation slots, the heating wire is less likely to overheat under high load conditions.

B. Surface load design of semi-exposed heating coil:

$$\leq 1000^{\circ}\text{C} \quad \leq 2.0\text{w}/\text{cm}^2$$

$$1000^{\circ}\text{C} - 1150^{\circ}\text{C} \quad \leq 1.5\text{w}/\text{cm}^2$$

Product Availability

Ceramic Fiber Boards are manufactured and available globally, but packaging, thickness, width and length vary by region.

Please contact your regional Hengrui Advanced Materials - Thermal Ceramics representative to support providing specific packaging availability for your local business needs.

Ceramic Fiber Heating Modules



Impact of furnace atmosphere and sintered products on electric heating modules:

1.Reducing atmosphere can affect the formation of alumina oxide film on the surface of the heating wire, so the design temperature needs to be appropriately reduced.

2.If the heating material contains compounds such as F, Cl, or releases alkali metals like Na, K, it can not only hinder the formation of the oxide film on the heating wire but also react with the fibers in the electric heating module, lowering the eutectic point and causing abnormal shrinkage of the electric heating module.

Product Availability

Ceramic Fiber Boards are manufactured and available globally, but packaging, thickness, width and length vary by region.

Please contact your regional Hengrui Advanced Materials - Thermal Ceramics representative to support providing specific packaging availability for your local business needs.



Hengrui high temperature energy saving materials co.,LTD
Zheshang Industrial Park.Xiping county,Zhumadian city,China
www.ceramicfiberfactory.com
Email: thermalinsulation@icloud.com