

DETAIL INFORMATION

CERAMIC FIBER MODULE



(Featured Products- Sewing Module)





Product Description

According to temperature requirements, ceramic fiber module is manufactured by corresponding ceramic fiber blanket, processed by series work of cutting, folding, inserting firmware and packaging etc. They have excellent thermal insulation and lower density, they are widely used in continuous annealing furnace, regenerative furnace, shuttle kiln, incinerator etc.

Featured Products- Sewing Module

To improve the shortcomings of compression modules processed by traditional tri-ply straps, we have researched and developed the whole set of automatic sewing equipment. By using sewn method, the ceramic fiber modules are manufactured and compressed to be installed in specific parts, which can enhance the construction efficiency and lower the cost.

Product Application

Metallurgical Industry: Special Alloy Heat Treatment Environmental Engineering: Waste Gas Incineration RTO Petrochemical Industry: Cracking Furnace, Flue Steel Industry: for Annealing, Heat Treatment, Ladle, etc. Ceramic Industry: Sanitary Ware Shuttle Kiln Glass Industry: Furnace

Product Superiority- Installation

Anchoring Parts





Screw Anchor



Hanging Buckle Anchor

HN Sewing Module adopts the mounting method to install, which is fast and greatly improves the installation efficiency and saves installation costs. The traditional module adopts the installation method of the locking bolt and nut, and each module needs to lock the bolt, cut the strap, and extract the splint, which is time-consuming and laborious and the installation speed is slow.



Traditional Installation









HN Module Installation





Product Superiority- Environmental Protection



(Traditional Installation Site for Reference)

While install traditional modules, the straps and splints need to be removed after installation, resulting in a large amount of construction waste.

For HN sewing modules, there is no construction waste after installation, which achieves the real environmental protection construction.

Product Superiority- Resistance to Wind Erosion



(Pictures under 300 times Magnifying Glass)



Air Flow



Air Flow

HN sewing module is manufactured automatically, the modules have been completely sewed while finish this manufacturing procedure.

All fibers are oriented perpendicular to the fire surface inside the furnace. At large wind speeds, it is the fiber fracture surface that are eroded, which will prevent the module from falling off.

Technical Data- HN Module

Item		HN-1260 Module	HN-1430 Module	
Chemical Content	Al ₂ O ₃ (%)	42-44	34-36	
	SiO ₂ (%)	56	49	
	ZrO ₂ (%)		14-17	
Working Temperature(%)		1100	1300	
Density(kg/m ³)		160-210	160-210	
Thermal Conductivity		0.25 (800℃)	0.48 (1000°C)	
Shot Content (%)	Total	43.4		
	+212um	11.3	20	
Tensile Strength(MPA)		0.07	0.075	
Rebound Recovery(Direction L)		≥5%	≥4%	
Shrinkage(%)		1100℃ ×24h	1200℃ ×24h	
		(2-3)	(1.5-2.5)	

Comparison of Technical Data from Different Suppliers- Grade 1260 Ceramic Fiber Blanket

Item		HN-1260	ISOWOOL	UNIFRAX
Density(kg/m ³)		128	128	128
Shot Content(%)	Total	43.4	58.2	45
	+212µm	11.3	13.2	12
Tensile Strength(MPA)		0.07	0.078	0.048
Permanent Linear Change on Heating (%)		2.3	1.8	3
Thermal Conductivity (W/ M.K)	At300 ℃	0.1	0.076	-
	At450 ℃	0.13	0.11	0.153
	At600 ℃	0.25	0.15	-
Chemical Content (%)	AL2O3	44	46	44
	AL2O3+SIO2	98.5	99.5	97

Project Case

Equipment: Metal Heat Treatment Furnace Application Industry: Special Alloy Heat Treatment Working Temperature 1400 ° C Furnace size: 7000×4000×3000(MM)











Project Case

Equipment: Metal Heat Treatment Furnace Application Industry: Lead Melting Working Temperature 700 ° C Furnace size: 12000×4500×1200(MM)









Project Case

Equipment: Metal Heat Treatment Furnace Application Industry: Continuous Galvanizing Line (CGL) Working Temperature 700-1400 ° C Furnace size: 150000×2500×2500(MM)



