


Nano aerogel composite thermal insulation Coating


Nano-aerogel composite thermal insulation Coating is a new type of thermal insulation material. It is a viscous slurry made of a variety of inorganic fibers, nano-silica aerogel fillers and other materials, using water as a dispersion medium, adding a special binder, and fiber dissolution and stirring. It can be directly coated on the substrate of the protected metal or other materials by spraying or daubing, etc., Forms a protective layer with high-efficiency heat preservation by baking and curing at room temperature or low temperature. The product has the characteristics of low thermal conductivity, high bonding strength, short drying time, low shrinkage, and not easy to crack after drying. Its the best choice for equipment, storage tanks, special shapes and complex working conditions.

Specification of HTC200:

Item	Unit	Technical Data	
Temperature Max.	°C	200	
Slurry Density	kg/m ³	850	
pH		7.5	
Dry density	kg/m ³	195	
Volume shrinkage	%	≤8	
Tensile Strength (After Dry)	kPa	476	
Bond strength	kPa	75	
Thermal Conductivity (25°C)	W/(m·K)	0.033	
Hydrophobic rate	%	97.6	
Non-combustibility		A2 Grade	
10mm thickness/m ² material	kg	8.9	
Bucket loading quantity	kg	16	


Specification of HTCT500:

Item	Unit	Technical Data
Temperature Max.	°C	500
Slurry Density	kg/m ³	1050
pH		8.5
Dry density	kg/m ³	260
Volume shrinkage	%	≤5
Tensile Strength (After Dry)	kPa	476
Bond strength	kPa	86
Thermal Conductivity (25°C)	W/(m·K)	0.05
Hydrophobic rate	%	97.6
Non-combustibility		A1 Grade
10mm thickness/m2 material	kg	11
Bucket loading quantity	kg	20



Specification of HTC1000:

Item	Unit	Technical Data
Temperature Max.	°C	1000
Slurry Density	kg/m ³	1100
pH		8.5
Dry density	kg/m ³	300
Volume shrinkage	%	≤5
Tensile Strength (After Dry)	kPa	523
Bond strength	kPa	86
Thermal Conductivity (25°C)	W/(m·K)	0.058
Hydrophobic rate	%	97.6
Non-combustibility		A1 Grade
10mm thickness/m2 material	kg	11.5
Bucket loading quantity	kg	20



Application:

Various types of high-temperature industrial furnace bodies and equipment; smelting and refining equipment; high-temperature pipelines; fire-fighting equipment and facilities; special military equipment; complex-shaped high-temperature equipment and other thermal insulation.

Application Area:



