

Pipe Wrapping Specification



Adhesive

Adhesive type:	Synthetic Polymer
Color:	Light Brown
Molten Tack:	Medium
Application Temp:	350°F

Fiber Blanket

Color:	White
Max Service Temp:	2200°F
Operating Temp:	2000°F
Shrinkage at 2000°F/24hrs:	0 - 1.5%
Specific Heat (BTU/LBS/F):	0.27
Avg Fiber Diameter:	2-3 Microns
Density, lbs/ft ³ (kg/m ³):	8 (128)

Aluminum Foil Tape

Substrate:	2.0-mil Aluminum Foil
Adhesive:	1.3-mil Acrylic
Tensile Strength:	17-lbs/in
Elongation:	2.5%

Fiberglass Mesh Sleeve

Continuous Operating Temp:	1200°F Max
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Stainless Steel Clamping Strap

Alloy:	304 Stainless Steel
Type:	Ball Lock
Min. Loop Tensile Strength (lbs):	300
Color:	Natural
Width:	0.31 Inches
Thickness:	0.010 Inches

Thermal Conductivity

Mean Temperature	Thermal Conductivity, BTU-in/hr-ft ² -°F(W/m ² K)
392°F (200°C)	0.35 (0.051)
752°F (400°C)	0.59 (0.085)
1112°F (600°C)	0.90 (0.13)
1472°F (800°C)	1.25 (0.18)
1832°F (1000°C)	1.73 (0.25)

Wrapping Installation

Adhesive applied to the back of the fiber blanket cut to required length.

Fiber blanket applied to the circumference and length of the pipe as required by customer drawings or samples provided.

Apply aluminum tape covering the entire insulated area of pipe surface and extending on to bare pipe for proper adhesion.

Fiberglass mesh sleeve applied over the insulated areas of the pipe as required by customer drawings or samples provided.

Stainless steel straps applied at the ends of the fiberglass mesh sleeve to secure in place.

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Contact us today!
800-247-5391
sales@auto-jet.com
auto-jet.com