THERMAL-WRAP
Fiberglass Insulation

THERMAL-WRAP is a conventional fiberglass insulation modified to enhance its strength and increase its versatility. This is accomplished by reorienting the fibers so that they are perpendicular to the points of normal stress and providing a carrier sheet which doubles as an exterior facing.

THERMAL-WRAP is furnished in roll form, and depending upon the choice of facing, all of the components, including the adhesive, are UL rated and do not exceed 25 Flame Spread and 50 Smoke Developed.

THERMAL-WRAP can be used on both cold and heated pipes, ducts, and equipment from sub-zero to 850°F. Typical applications include large piping of any size, cylindrical high-pressure duct systems, breechings, roof drains and hubs, flanged fittings, hot water tanks, and traced piping.

PHYSICAL PROPERTIES	
Temperature Range:	-60°F to 650°F Maximum Fiber Temperature 850°F
Density:	Nominal 3pcf
Thermal Conductivity btu/hr sq. ft. (°F/in.)	
75°F Mean Temperature	0.27
100°F Mean Temperature	0.29
250°F Mean Temperature	0.43
Compressive Strength:	Meets ASTM C-165. Minimum 150PSF (10% deformation, 2" thickness) 275PSF (10% deformation, 3" and 4" thickness)
Vapor Transmission:	0.025 perms (Jacket only)
Composite Surface Burning:	All components with the exception of the glass mat facing are UL classified (ASTM E-84 and UL-723) and do not exceed 25 flame spread, 50 smoke developed.
Standard Sizes & Thicknesses:	1" x 36" x 31' - 93 sf 1½" x 36" x 31' - 93 sf 2" x 36" x 31' - 93 sf 2½" x 36" x 31' - 93 sf 3" x 36" x 31' - 93 sf 3.5" x 36 x 15.5' - 46.5 sf 4" x 36 x 15.5' - 46.5 sf

FEATURES INCLUDE:

Minimizes Stocking Problems
Flexibility permits close fit to all sizes pipe, duct, and equipment, regardless of shape or contour.

Easy to Apply
Only a knife needed to cut most intricate shapes. Supplied in one piece.

Permanent, Inorganic, Fire Safe
Glass fiber construction will not deteriorate. UL rated components comply with most stringent building codes.

Good Compressive Strength
Superior to other forms of fiberglass insulation of equal and higher densities.

FACINGS	DESCRIPTION
ASJ - ALL SERVICE JACKET Flame Spread 20 Smoke Developed 35	Laminated .001 aluminum foil, glass reinforcing, and white kraft paper.
GLASS MAT	Lightweight glass mat comprised of fine glass fibers, reinforced with a resin and a swirl-pattern of fiberglass yarn.
FOIL-SCRIM-KRAFT UL VAPOR BARRIER Flame Spread 25 Smoke Developed 20	Laminated construction of aluminum foil, glass-fiber reinforcing, and kraft paper. The laminating adhesive is flame extinguishing.

NOTE: A. Available aluminum jacket 0.010, 0.016, or 0.020
B. Available with PVC jacketing 0.010, 0.015, or 0.020

STRETCH-OUT DATA
Approximate Length in Inches to Cut Rolls to Fit Large Pipes and Ducts

PIPE SIZE	1"	1½"	2"	2½"	3"	3½"	4"
6	30	33 1/8	36 1/4	39 5/8	43 1/8	45 5/8	48 7/8
7	33 1/8	36 1/4	39 3/8	43 1/4	45 5/8	48 7/8	52 1/8
8	36 1/4	39 3/8	43 1/8	45 3/8	48 7/8	51 1/8	55 1/4
9	39	43 1/8	45 5/8	48 7/8	52 1/8	55 1/4	58 3/8
10	43 1/8	46 1/4	49 3/8	52 1/2	53 5/8	56 3/8	59
11	46 1/4	49 3/8	52 1/2	53 5/8	56 3/8	59	62 3/4
12	49 3/8	52 1/2	53 5/8	56 5/8	59	62 3/4	65 7/8
13	52 1/2	53 5/8	56 3/8	59	62 3/4	65 7/8	69
14	53 1/4	56 3/8	59 5/8	62 3/4	65 7/8	69	72 3/8
15	56 3/8	59 5/8	62 3/4	65 7/8	69	72 3/8	75 1/4
16	59 5/8	62 3/4	65 7/8	69	72 3/8	75 1/4	78 3/8
17	62 3/4	65 1/8	69	72 5/8	75 1/4	78 3/8	81 1/2
18	65 7/8	69	72 3/8	75 1/4	78 3/8	81 1/2	84 3/4
19	69	72 3/8	75 1/4	78 3/8	81 1/2	84 3/4	88 7/8
20	72 3/8	75 1/4	78 3/8	81 1/2	84 3/4	88 7/8	91
21	75 1/4	78 3/8	81 1/2	84 3/4	88 7/8	91	94 1/8
22	78 3/8	81 1/2	84 3/4	88 7/8	91	94 1/8	97 1/4
23	81 1/2	84 3/4	88 7/8	91	94 1/8	97 1/4	100 3/8
24	84 3/4	88 7/8	91	94 1/8	97 1/4	100 3/8	103 5/8
25	88 7/8	91	94 1/8	97 1/4	100 3/8	103 5/8	106 3/4
26	91	94 3/8	97 1/4	100 3/8	103 5/8	106 3/4	110
28	97 1/8	100 3/8	103 5/8	106 3/4	109 7/8	113	116 1/8
30	103 5/8	106 3/4	109 7/8	113	116 1/8	119	122 3/8
32	109 7/8	113	116 1/8	119	122 3/8	125 5/8	128 3/4
34	116 1/8	119 3/8	122 3/8	125 5/8	128 3/4	131 7/8	135

Using this stretch-out data, cut to the desired circumference, install on the pipe or vessel, and then staple or band into place.

BAY™ INSULATION SUPPLY

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