

TECHNICAL INFORMATION

GLT Fabricators Pipe and Tank Insulation is a semi-rigid wrap designed to insulate large piping (over 8" IPS), and other curved surfaces, such as pipes with tracing lines, most fittings and other irregular shapes. Available in mineral wool or Fiberglass.

These Pipe and Tank Insulation wraps eliminates the need for stocking large diameter pipe insulation, thereby eliminating job returns on slow moving items.

Fiberglass Pipe and Tank Insulations are manufactured with the fibers perpendicular to the surface and available with various jacketing. The orientation of the fibers gives the material the characteristics of a rigid board. The Pipe and Tank Insulation can be applied with staples and mastic, tape or mechanical fasteners. Metal jackets can be screwed or banded. The material comes in 36" widths and thicknesses from 1" to 4".

Available in two materials, both designed for different temperature applications with facing options of FSK, ASJ and Glass Mat.

Mineral Wool: Used to insulate hot surfaces up to 1000°F.

Fiberglass: Used to insulate cold and hot surfaces from -60°F to 650°F



Physical Properties

Properties	Mineral Wool	Fiberglass
Temperature range	Up to 1000° F	-60°F to 650°F
Density	Available in 6 or 8 PCF	4.5 PCF
Compressive strength	Not less than 125 PSF at 10% deformation	
Thermal conductivity at 75°F mean temperature	0.30	0.27
Facing	ASJ, FSK or Glass Mat*	ASJ, FSK or Glass Mat*
Surface burning characteristics	All components as tested ASTM-E84 and do not exceed 25 Flame Spread and 50 Smoke Development	
Standard roll sizes	1" × 36" × 33½' 100 sq. ft./roll 1½" × 36" × 33½' 100 sq. ft./roll 2" × 36" × 16¾' 50 sq. ft./roll 2½" × 36" × 16¾' 50 sq. ft./roll 3" × 36" × 16¾' 50 sq. ft./roll 3½" × 36" × 16¾' 50 sq. ft./roll 4" × 36" × 11' 33 sq. ft./roll	
Standard compliance	Federal Spec HH-I-558B , ASTM C-612-93 (Board Stock), Federal Spec HH-B-100B (Facing Only), ASTM C-795-83	

* Glass Mat is not available on fiberglass and mineral wool thicker than 3"

Pipe and Tank Recommended Thickness

Fiberglass

Insulation thickness needed to keep surface temperature at or below the 140°F maximum required.

TEMP °F	350	450	550	650	750	850
8" IPS	1"	1½"	2"	2½"	3"	4"
10" IPS	1"	1½"	2"	2½"	3½"	4"
12" IPS	1"	1½"	2"	2½"	3½"	4½"
14" IPS	1"	1½"	2"	2½"	3½"	4½"
16" IPS	1"	1½"	2"	3"	3½"	4½"
18" IPS	1"	1½"	2"	3"	3½"	4½"
20" IPS	1"	1½"	2"	3"	3½"	4½"
22" IPS	1"	1½"	2"	3"	3½"	4½"
24" IPS	1"	1½"	2"	3"	4"	4½"

25" IPS + up, including flat surfaces - use 24" IPS data

Thickness calculations are based on 80°F ambient air, ASJ jacket and zero mph wind.

Some smoke and odor can be expected during initial heat up above 450° due to oxidation of organic binder material. The insulation value of the product is not affected; however, adequate ventilation should be provided. Care must also be taken when using sealants, solvents or flammable adhesive during installation of this product.

Mineral Wool

Insulation thickness needed to keep surface temperature at or below the 140°F maximum required.

TEMP °F	500	600	700	800	900	1000	1100	1200
8" IPS	1½"	2"	2½"	3"	4"	5"	6"	7"
10" IPS	1½"	2"	2½"	3½"	4"	5"	6"	7"
12" IPS	1½"	2"	2½"	3½"	4½"	5"	6"	7"
14" IPS	1½"	2"	2½"	3½"	4½"	5"	6"	7"
16" IPS	1½"	2"	3"	3½"	4½"	5"	6"	7"
18" IPS	1½"	2"	3"	3½"	4½"	5"	6"	7"
20" IPS	1½"	2"	3"	3½"	4½"	5"	6"	7"
22" IPS	1½"	2"	3"	3½"	4½"	5"	6"	7"
24" IPS	1½"	2"	3"	4"	4½"	5"	6"	7"