

# RUBBER PIPE INSULATION\*

- Closed cell flexible elastomeric foam insulation tubes
- Seamless - Non-slit for slide-on applications
- Self-Sealing - (Pre-Slit / Pre-Glued / DoubleSeal closure system) for retrofit applications
- For use on HVAC/R, commercial, and industrial process piping and equipment
- For most indoor applications, no additional jacketing is required
- High resistance to moisture vapor intrusion; low thermal conductivity
- CARTON QUANTITIES ONLY



\*Excludes Titan™ Insulation Tubes and Rubber Insulation Rolls. See our website for specifications and certifications on these products.

RUBBER PIPE INSULATION TECHNICAL DATA			
Physical properties		Rubber Pipe Ins	Test methods
Thermal Conductivity (K)	90°F (32°C) Mean Temp	0.258 (0.0372)	ASTM C 177
BTU - in/hr - Ft <sup>2</sup> - °F (W/mk)	75°F (24°C) Mean Temp	0.245 (0.0353)	
	32°F (0°C) Mean Temp	0.235 (0.0339)	
Density		3-6 lb/ft <sup>3</sup>	ASTM D 1667
Operating Temperature Range		-297°F* (-183°C) to +220°F (+104°C)	ASTM C534
Water Vapor Permeability (Dry Cup)		<0.01 perm-in	ASTM E96
Water Absorption (Volume Change)		0%	ASTM C209
Flame Spread / Smoke Development (up to 2" wall)		<25/50	ASTM E84
Dimensional Stability		<7% Linear Shrinkage	ASTM C534
Hot Surface Performance (250°F for 96 hours)		No Cracking or Delamination	ASTM C411
Ozone Resistance		Pass	ASTM D1171
Odor Emissions		No Objectionable Odor	ASTM C1304
Chemical/Solvent/Oil/Grease Resistance		Good	Compatibility Data Available on Request
Flexibility		Excellent Pass: Cold Crack Test at -40°F (-40°C)	ASTM C534 ASTM D1056
Mildew Growth Resistance/Air Erosion		Pass	UL 181, ASTM G21
Corrosion Risk		pH neutral: 6.6±0.04	DIN 1988
Leachable Chlorides		<0.05% water-soluble chloride ions	DIN 1988
UV / Weather Resistance <sup>1</sup>		Pass	QUV Chamber Test
Sound Transmission Class (1")		13	ASTM E90

\*For applications below -40°F (-40°C), contact us for support.  
<sup>1</sup> Outdoor applications should be protected with an approved coating.

RUBBER PIPE INSULATION THICKNESS RECOMMENDATIONS - TO PREVENT CONDENSATION												
SERVICE TEMPERATURE	50°F (10°C)			35°F (2°C)			0°F (-18°C)			-20°F (-29°C)		
Pipe Size	Mild	Normal	Severe	Mild	Normal	Severe	Mild	Normal	Severe	Mild	Normal	Severe
3/8" ID to 1-1/8" ID	3/8"	3/8"	3/4"	3/8"	1/2"	3/4"	1/2"	3/4"	1-1/2"	1/2"	1"	1-1/2"
1-3/8" ID to 3" IPS	3/8"	3/8"	3/4"	3/8"	3/4"	1"	1/2"	1"	1-1/2"	3/4"	1-1/2"	1-1/2"
4" IPS to 8" IPS	1/2"	1/2"	3/4"	1/2"	3/4"	1"	3/4"	1"	2"	3/4"	1-1/2"	2"

Thickness listed for the specified ranges will prevent condensation on indoor piping under the defined design conditions. Normal: 85°F and 70% R.H. Mild: Most air conditioned spaces and arid climates: 80°F and 50% R.H. Severe: Areas where excessive moisture is introduced or in poorly ventilated areas where the temperature may be depressed below the ambient: 90°F and 80% R.H.

RUBBER PIPE INSULATION PIPE "R" VALUES PER SQUARE FOOT (ALL SIZES ARE NOMINAL)						
Nominal insulation I.D.	3/8" WALL	1/2" WALL	3/4" WALL	1" WALL	1-1/2" WALL	2" WALL
3/8"	2.7	3.6	5.6	8.5	14.6	20.4
1/2"	2.5	3.4	5.4	7.9	13.5	18.9
5/8"	2.5	3.3	5.4	7.5	12.8	17.8
3/4"	2.3	3.1	5.4	7.5	12.4	16.8
7/8"	2.3	3.2	5.4	7.2	11.6	16.1
1-1/8"	2.2	3.1	5.5	7.1	10.8	15.8
1-3/8"	2.2	3.2	5.3	7.3	10.2	14.9
1-5/8"	2.4	3.1	5.1	7.1	9.8	14.6
1-1/2" IPS	2.0	2.6	4.4	6.2	9.9	13.8
2-1/8"	2.3	3.0	4.9	6.6	9.2	13.6
2" IPS	2.3	2.9	4.8	6.5	9.0	13.3
2-1/2" IPS	2.3	3.0	4.6	6.3	8.6	12.6
2-5/8"	2.3	3.1	4.7	6.4	8.8	12.9
3-1/8"	2.3	3.0	4.6	6.2	8.5	12.4
3" IPS	2.3	3.2	4.6	6.1	8.3	12.2
3-5/8"	2.3	3.2	4.6	6.1	8.3	12.1
4-1/8"	2.3	3.1	4.6	6.0	8.1	11.7
4" IPS	2.2	3.2	4.6	5.5	8.0	11.6
5" IPS	-	3.0	4.5	5.7	7.7	11.1
6" IPS	-	3.0	4.4	5.6	7.5	10.9
8" IPS	-	2.9	4.2	5.3	7.2	-

- ### SPECIFICATION COMPLIANCE
- ▶ ASTM C534 Type 1, Grade 1
  - ▶ ASTM D1056-00-2B1
  - ▶ New York City MEA 186-86-M Vol. V
  - ▶ USDA Compliant
  - ▶ CFIA Compliant
  - ▶ RoHS Compliant
  - ▶ UL 94-5V Flammability Classification (#E300774)
  - ▶ ASTM E84 25/50-rated (to 2") - tested to UL 723, NFPA 255 and CAN/ULC S102-03
  - ▶ FMVSS 302
  - ▶ FAR 25.853
  - ▶ FMRC Approval Guide: Chapter 14 Pipe Insulation
  - ▶ NFPA No. 101 Class A Rating
  - ▶ NFPA 90A, 90B
  - ▶ MIL-P-15280, Form T
  - ▶ Meets requirements of California ECB Title 24
  - ▶ UL GREENGUARD® Gold Certified
  - ▶ Meets energy code requirements of ASHRAE 90.1 and 189.1

