

TITAN™ Seamless UV Resistant Rubber Pipe Insulation

* Patent Pending

Specifications

Closed cell elastomeric foam NBR/PVC tube with flexible polymeric jacketing material. High resistance to moisture vapor intrusion; low thermal conductivity. Sold in carton quantities only

Applications

For use on HVAC/R, commercial, and industrial process piping and equipment. Ideal for outdoor applications: UV resistant, tear resistant, weather resistant.

Materials

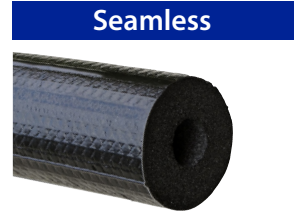
Elastomeric Foam NBR/PVC. Rubber.

Certifications/Listings/Approvals

- 2012 IECC
Section R403.3.1 (residential)
Section C403.2.8 (commercial)
- 2015 and 2018 IECC
Section R403.4.1 (residential)
Section C403.2.10.1 (commercial)
- 2012, 2015 and 2018 IRC
Section N1103.4.1
- 2016 California Energy Code, Part 6 Subchapter 3, Section 120.3
- ASTM E84 25/50-rated (to 1-1/2")
CAN/ULC S102.2 - 25/50 rated
- UL 94 Flamability Classification (#E300774)
- NFPA 90 A - 90 B

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Job Name _____
 Location _____
 Engineer _____
 Contractor _____
 Tag _____ PO# _____



TITAN™ SEAMLESS UV RESISTANT RUBBER PIPE INSULATION ⇄ TECHNICAL DATA		
Physical properties	Titan™ Seamless UV Resistant Rubber Pipe Ins	Test methods
Main Composition	Flame-retarded NBR/PVC elastomeric foam with proprietary copolymer blend jacket	-
Thermal Conductivity (Btu-in/hr-Ft ² -°F) 75°F (24°C) Mean Temp	0.242	ASTM C177
Density	3-6 lb/ft ³	ASTM D1667
Operating Temperature Range	-70°F* (-57°C) to +220°F (+104°C)	ASTM C534
Water Vapor Permeability (Dry Cup) (Core Material Only)	<0.01 perm-in	ASTM E96
Water Vapor Permeance (Jacket Material)	≤0.05 perms	ASTM E96
Dimensional Stability	<7% Linear Shrinkage	ASTM C534
Corrosion Risk	pH neutral	DIN 1988
UV Resistance (Artificial Aging) (Jacket Material)	Pass: No Changes to Surface Condition Excellent – No Deterioration	ASTM G153 ASTM G154 tested to 3,000 hours
Flammability	25/50 (up to 1-1/2") HF-1, V-0, 5VA	ASTM E84 UL 94
Tensile Strength	1,200 psi min.	ASTM D412
Elongation	150% min.	ASTM D412
Hot surface Performance at 250°F (121°C)	pass	ASTM C411 NFPA 90 A

* For applications below -40°F (-40°C), contact us.

TITAN™ SEAMLESS UV RESISTANT RUBBER PIPE INSULATION ⇄ THICKNESS RECOMMENDATIONS - TO PREVENT CONDENSATION		
SERVICE TEMPERATURE	-20°F (-29°C)	50°F (10°C)
3/8" ID to 1-1/2" ID	1"	1/2"
1-1/2" IPS to 2-7/8" IPS	1"	1/2"

Thickness listed for the specified ranges will prevent condensation on indoor piping under the defined design conditions. Normal: 85°F and 70% R.H.

TITAN™ SEAMLESS UV RESISTANT RUBBER PIPE INSULATION ⇄ FOR ENERGY CONSERVATION (ASHRAE 90.1 - 2010)				
NOMINAL PIPE OR TUBE SIZE, INCHES	< 40°F < 4.4°C	40-60 °F 4.4-15.6°C	105-140 °F 40.6-60 °C	141-200°F 60.6-93.3°C
< 1"	0.5	0.5	1.0	1.5
1" to 1 1/2"	1.0	0.5	1.0	1.5
1 1/2" to 4"	1.0	1.0	1.5	2.0

TITAN™ SEAMLESS UV RESISTANT RUBBER PIPE INSULATION ⇄ PIPE "R" VALUES PER SQUARE FOOT (ALL SIZES ARE NOMINAL)					
Nominal insulation I.D.	1/2" WALL	3/4" WALL	1" WALL	1-1/2" WALL	
1/4"	4.0	6.1	9.6	16.5	
3/8"	3.6	5.6	8.5	14.6	
1/2"	3.4	5.4	7.9	13.5	
5/8"	3.3	5.4	7.5	12.8	
3/4"	3.1	5.4	7.5	12.4	
7/8"	3.2	5.4	7.2	11.6	
1-1/8"	3.1	5.5	7.1	10.8	
1-3/8"	3.2	5.3	7.3	-	
1-5/8"	3.1	5.1	7.1	-	
1-1/2" IPS	2.6	4.4	6.2	-	
2-1/8"	3.0	4.9	6.6	-	
2" IPS	2.9	4.8	-	-	
2-1/2" IPS	3.0	-	-	-	
2-5/8"	3.1	-	-	-	