

# TITAN™ Seamless UV Resistant Rubber Pipe Insulation

<b>Job Name</b>	_____
<b>Location</b>	_____
<b>Engineer</b>	_____
<b>Contractor</b>	_____
<b>Tag</b>	_____ <b>PO#</b> _____

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## Specifications

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

## Applications

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

## 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

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 <sup>2</sup> -°F	75°F (24°C) Mean Temp= 0.242	ASTM C177
Density	3-6 lb/ft <sup>3</sup>	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, SVA	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 technical support.

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 "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	--	--	--