

# Seamless Black Rubber Pipe Insulation Coil

## Specifications

A NBR/PVCbased closed cell, flexible elastomeric foam insulation. It is environmentally-friendly as it is free of CFCs, HFCs, HCFCs, PBDEs, formaldehyde and fibers. An EPA registered antimicrobial agent is incorporated into the product providing additional protection against mold, fungal and bacterial growth.

## Applications

Recommended for applications with service temperatures ranging from -297°F (-182°C) to +220°F (+104°C). The product is used to retard heat gain and prevent condensation or frost formation on line sets or extended length copper piping for chilled water or refrigeration systems. It can be used with heat tracing tapes. It also retards heat loss from medium hot systems, including hot water plumbing, liquid heating, dual temperature, and solar thermal piping, among others. Can withstand temperature "spikes" up to 250°F (121°C). Because these spikes can vary in temperature and duration, long term effects may vary.

## Materials

Elastomeric Foam. Rubber.

## Certifications/Listings/Approvals

- 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 - tested to UL 723, NFPA 255 and CAN/ULC S102-03
- FMVSS 302
- FAR 25.853
- 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

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



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INSULATION COIL ⇄ TECHNICAL DATA		
Physical properties	INSULATION COIL	Test methods
Main Composition	Flame-retarded NBR/PVC-based elastomeric foam	
Thermal Conductivity (K) Btu-in/hr-Ft <sup>2</sup> -°F (W/mK)	90°F (32°C) Mean Temp = 0.258 (0.0372) 75°F (24°C) Mean Temp = 0.245 (0.0353) 32°F (0°C) Mean Temp = 0.235 (0.0339)	ASTM C177
Density	3-6 lb/ft <sup>3</sup>	ASTM D1667
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	<25/50	ASTM E84
Flammability	Self-Extinguishing	ASTM D635
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

INSULATION COIL ⇄ 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	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"

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.

INSULATION COIL ⇄ 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
3/8"	2.7	3.6	5.6	8.5
1/2"	2.5	3.4	5.4	7.9
5/8"	2.5	3.3	5.4	7.5
3/4"	2.3	3.1	5.4	7.5
7/8"	2.3	3.2	5.4	7.2
1-1/8"	2.2	3.1	5.5	7.1
1-3/8"	2.2	3.2	5.3	7.3