AEROFLEX EPDM™ Insulated Copper Coils

PRODUCT

AEROFLEX EPDM™ Insulated Copper Coils for refrigerant HVAC applications, including VRV/VRF, Mini-Splits, and more.

COPPER SPECS

Tubing: UNS C12200 DHP (phosphorus deoxidized, high residual phosphorus), >99.9%. 060 Temper (Soft Annealed). Dehydrated, Cleaned, and Capped. Meets ASTM B1003-16.

SPECIAL FEATURES

Superior Fire Safety: 25/50 rated (ASTM E84, UL723, CAN/ ULC-S102) and self-extinguishing (ASTM D635).

Compliant with most modern refrigerants: Approved for use with R-32, R-410A, R-454B, and other refrigerants.

High UV Resistance: Minimal cracking or color change caused by UV in accordance with ASTM G7.

Built-in Vapor Retarder: No supplemental vapor retarder required for most applications *(supplemental vapor barrier may be required in extreme low temperature or high-humidity applications. Protective jacket required for direct-bury applications and if insulation may be subjected to mechanical damage)*.

Suitable for Interior & Exterior Applications: *For exterior applications, Aerocoat®, Aerocoat LVOC®, or an insulation jacket are recommended for UV protection to maximize the insulation's life cycle.*

Nonpolar: Does not induce or react with water and is non-corrosive to copper piping.

Naturally Mold-Resistant: No biocides required.

INSULATION SPECS

Material: Low-density EPDM closed cell elastomeric foam with no CFCs, HFCs, HCFCs, PBDEs, formaldehyde, nitrosamine, or fibers.

Water Vapor Permeability: ≤ 0.02 perm-in. (4.38 x 10-11g/Pa*s*m) per ASTM E96.

Water Absorption: ≤ 0.2% by volume per ASTM C209/C1763.

Insulation Thickness: 3/4", 1", and 1-1/2" available.

CONTINUOUS Service Temperature: -297 °F to 257 °F (-183 °C to 125 °C) per ASTM C411.

Surface Burning Characteristics: Meets 25/50 Flame-Spread/Smoke-Generated per UL 723, ASTM E84, and CAN/ULC-S102. Additionally passes UL-94 V-0 and NFPA 90A/90B, and is self-extinguishing per ASTM D 635.

Thermal Conductivity: Maximum thermal conductivity of 0.245 BTU-in/h-f2-°F at a mean of 75°F when tested per ASTM C177/C518.

UV Resistance: Minimal cracking or color change caused by UV in accordance with ASTM G7.

Nonpolar: Non-corrosive to copper and helps repel water vapor.

Color: Black.

NOTE: Quantities are estimates only. Contractor is responsible for quantities required on project.

Total Qty							
Each	Feet	Product #	Tube OD	Length (Feet)	Insulation Thickness	Burst (psi)	R-Val.
		CCE0206060	1/4"	60	3/4"	6720	6.7
		CCE0306060	3/8"	60	3/4"	4000	6
		CCE0406060	1/2"	60	3/4"	3360	5.6
		CCE0506060	5/8"	60	3/4"	2880	5.2
		CCE0606055	3/4"	55	3/4"	2400	5
		CCE0706055	7/8"	55	3/4"	2674	5.3

Total Qty							
Each	Feet	Product #	Tube OD	Length (Feet)	Insulation Thickness	Burst (psi)	R-Val.
		CCE0208050	1/4"	50	1"	6720	10.1
		CCE0308050	3/8"	50	1"	4000	9
		CCE0408050	1/2"	50	1"	3360	8.3
		CCE0508050	5/8"	50	1"	2880	8
		CCE0608045	3/4"	45	1"	2400	7.7
		CCE0708045	7/8"	45	1"	2674	7.4
		CCE0412060	1/2"	60	1-1/2"	3360	14.1
		CCE0512060	5/8"	60	1-1/2"	2880	13.3
		CCE0612060	3/4"	60	1-1/2"	2400	12.8
		CCE0712060	7/8"	60	1-1/2"	2674	12.7

*Burst pressures based upon the Barlow Formula

⚠ CAUTION

▲ Designer, Specifier, Engineer, and/or Contractor is responsible for suitability of the product for the intended application and pressure requirements.

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Important Installation Notes

GENERAL

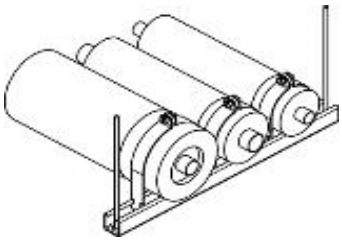
1) Refer to Aeroflex USA's website (https://www.aeroflexusa.com/) for additional information
2) Refer to Reftekk's website (http://www.reftekk.com) for additional information
3) Install insulation with the mindset to **KEEP THE PIPE DRY**
4) Install in straight lines and avoid creating traps due to sagging tubing
5) Install carefully and avoid tearing or crushing the insulation during installation
6) Do NOT allow the insulation to be crushed by unistrut, wire, straps, or wire ties

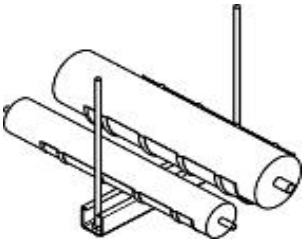
SELECTING INSULATION THICKNESS(ES)

1) Thickness of insulation must be chosen as the thickest requirement from the following criteria:
   - Equipment manufacturers' installation instructions
   - Code requirements (specifically city/county/state/federal adopted energy codes)
   - Calculated minimum thickness required to prevent condensation on outside of insulation
     - Important: See note below if using saddle supports
   - Engineering specifications

SUPPORT

1) Support the piping and space the supports per local code requirements
2) Support pre-insulated coils with Cush-A-Therm supports
   - If Cush-A-Therm supports are not possible and saddle supports are used instead, the insulation will compress at these locations, and condensation may occur if the compressed insulation thickness is less than what is required to prevent condensation. A good "rule of thumb" is to assume the insulation will compress 50% over time. Therefore, if using saddle supports, the installed insulation thickness should be at least twice the minimum thickness than what is required to prevent condensation.
     - Do **NOT** use saddle supports vertically or outdoors





SEALING

1) **KEEP THE PIPING SYSTEM DRY**
2) Repair any tears in the insulation with Aeroseal® contact cement and cover with Aeroflex Protape
3) All seams & joints must be sealed w/ Aeroseal® contact cement
   - When using Aeroseal® contact adhesive, recommended that the joint be taped with Aeroflex Protape
4) All seams and joints must be water and vapor tight
5) Seal all insulation terminations at valves and equipment to be vapor tight
6) Wet seal the insulation to the tubing at equipment terminations
7) The insulation MUST be sealed to prevent rain or condensation from reaching the tube