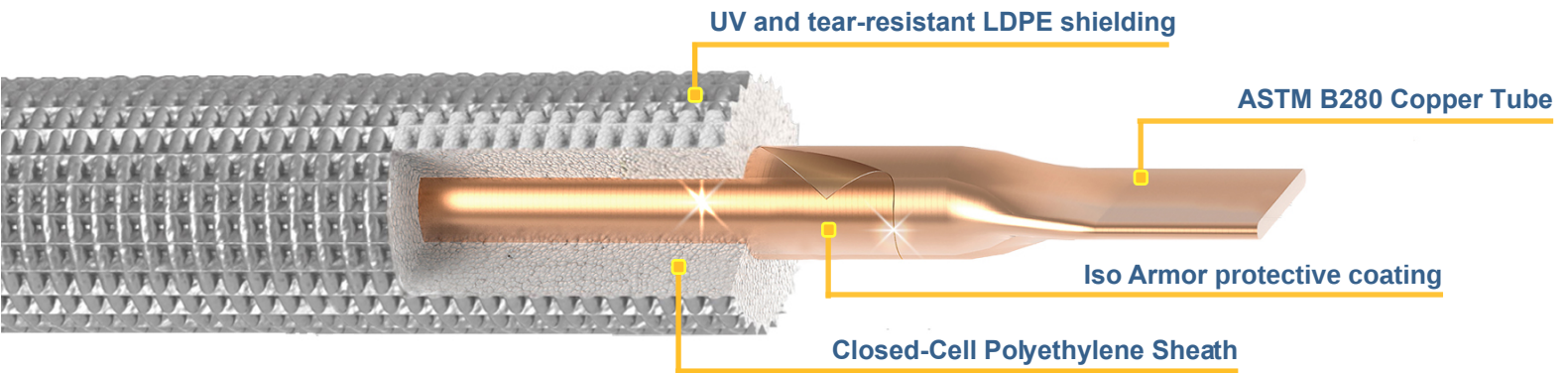




COPPER PIPE

- Made in accordance with applicable regulations, with cleaned inside surfaces, phosphorous deoxidized, high residual phosphorous, annealed in coils.
- Minimum Cu $\geq 99.90\%$
- Phosphorous content = $0.015\% \div 0.040\%$
- **Approved to ASTM B280 - Type ACR**
- Perfect for applications where high-pressure gases are used as refrigeration source.
- **ISOARMOR polymer coating to protect the copper from moisture, oxygen and VOCs**

INSULATION

- Low density closed cells polyethylene foam
- CFC and HCFC damaging-ozone gas free
- Made according to **ASTM C 1427-07**, type I (tubular), grade I (insulation material for use on typical commercial system non-cross-linked)
- Surface burning characteristics: **UL 94**, top rated for Surface Burning Characteristics – **UL 723** (Flame and Spread Index less than 25 and Smoke Development Index less than 50), **ASTM E84** (25/50) compliant and tested in accordance with **UL 746A** for Ignition Resistance.

SHEATH

- External **UV-resistant** LDPE foil covering which adheres to a non-flammable base, melts flameless belongs to self-extinguish Class.
- Marked progressively every foot with product details (pipe and insulation diameters) and production date & time.
- Excellent resistance to water vapor diffusion and substantial reduction of moisture on the outer surface of the pipe.
- Additional protection to foam insulation from tearing during installation process.
- EXTERIOR INSULATION MUST BE PROTECTED FROM EXTERIOR HAZARDS (ASHRAE 90.1-2013 & IECC- 2015)



TECHNICAL DATA	
COPPER PIPE WALL THICKNESS	ASTM B280
INSULATION THICKNESS	1/2"
OPERATING TEMPERATURE RANGE	-112°F / 208°F (-80°C / +98°C)
COEFF. OF WATER VAPOR DISPERSION	5482 μ
THERMAL CONDUCTIVITY	0.0397 W. m ⁻¹ . K ⁻¹
INSULATION DENSITY	99 lbs/cubic ft (45 Kg/m ³)
FIRE RESISTANCE	Class 1 (self-extinguishing)
PACKAGING	Comes in single coils wrapped in clear film for added protection.

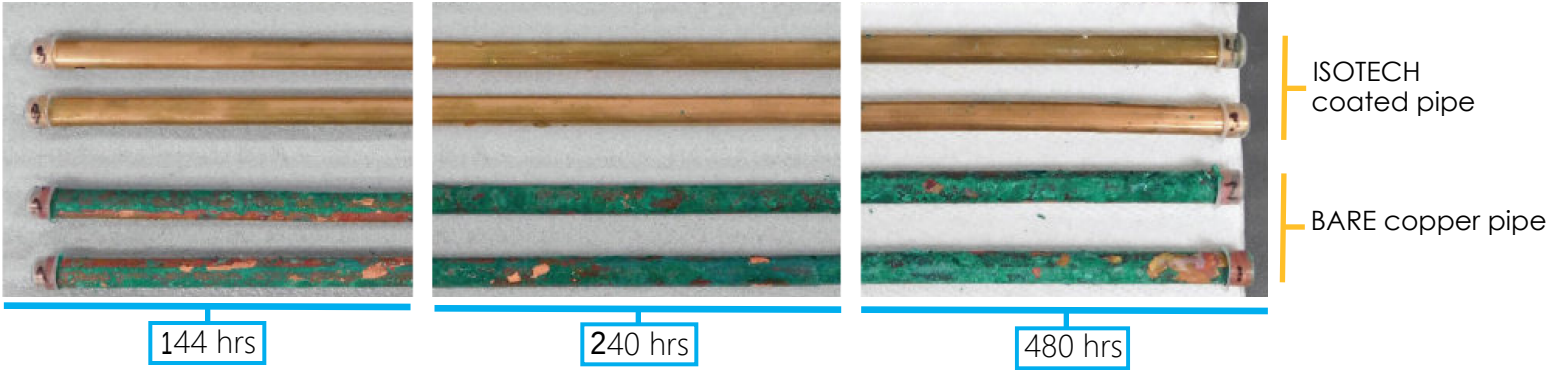
PART NUMBER	PIPE	INSULATION	LENGTH (FT)
ISOTECHUV14-12-50	1/4"	1/2"	50
ISOTECHUV38-12-50	3/8"	1/2"	50
ISOTECHUV12-12-50	1/2"	1/2"	50
ISOTECHUV58-12-50	5/8"	1/2"	50
ISOTECHUV34-12-50	3/4"	1/2"	50
ISOTECHUV78-12-50	7/8"	1/2"	50
ISOTECHUV14-12-164	1/4"	1/2"	164
ISOTECHUV38-12-164	3/8"	1/2"	164
ISOTECHUV12-12-164	1/2"	1/2"	164
ISOTECHUV58-12-164	5/8"	1/2"	164
ISOTECHUV34-12-82	3/4"	1/2"	82
ISOTECHUV78-12-82	7/8"	1/2"	82

Tested in accordance with
UL 94, UL 723A, UL 746A

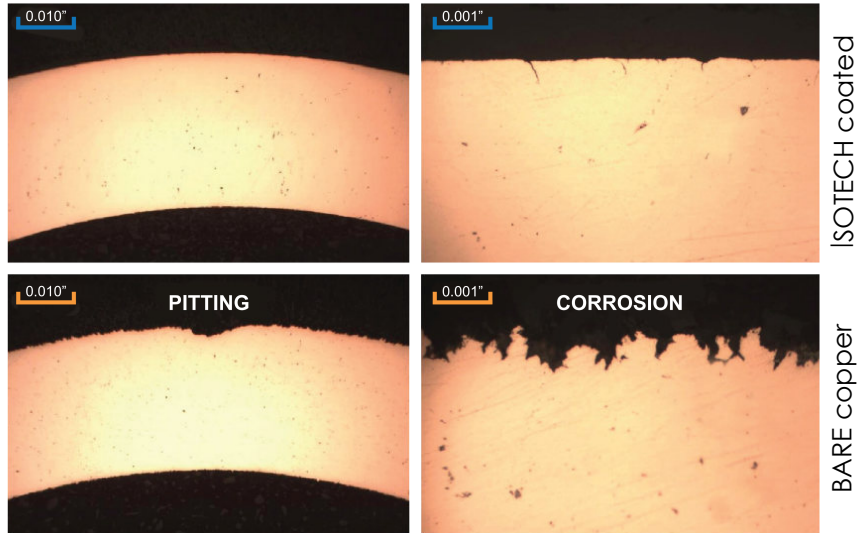


Sets of ISOTECH and bare copper pipe samples were subjected to a 480-hrs laboratory test in a highly corrosive environment followed by a metallographic evaluation to compare the extent of corrosion. All tests performed in US.

CORROSIVE TEST



METALLOGRAPHIC EVALUATION



Visual examination disclosed significant corrosion on the BARE samples. ISOTECH coated samples showed clean, non-corroded surfaces.

Metallographic examination confirmed the presence of corrosion pitting on the BARE sample while no corrosion was noted around the ISOTECH coated pipes.

