Mueller Industries’ famous Streamline® Coated ACR Copper Tube is available with a white layer of seamless polyethylene coating. Commonly used in open ceiling commercial refrigeration, HVAC and medical gas applications, this product provides all the performance, cleanliness and reliability for which Streamline Nitrogenized ACR is known but with the added advantage of white aesthetics, easy identification and enhanced protection by isolating the copper tube from any corrosive environments.

Standard Features
- .025” (minimum) polyethylene coating is extruded onto the copper providing consistent corrosion protection
- Made to ASTM & NFPA Standards
- Continuously marked with size, specification information, manufacturing code & footage every 2 feet
- Custom products & markings available upon request
- Made in the USA

Advantages
- Eliminates the need for continuous on-site tape wrapping or sleeving, creating a savings on labor & professional looking installation
- Coated tube is suitable for direct burial in concrete slabs
- Compatible with standard solder fittings & brazing techniques (Alternative joining systems must comply to manufacturer’s specs)
- Manufactured to reduce work hardening & stress corrosion cracking
- Provides protection against galvanic reaction
Installation

1. Cut and fold back plastic cover to reveal the copper tube

2. Install solder fittings in accordance with manufacturer’s instructions and local codes
   
   Note: If using a blowtorch, take care to keep the flame away from the plastic cover

3. When the joint is complete and cool, replace the plastic coat and wrap the joint to give continuity of protection
   
   Note: Polyken #930 Tape Coating for Joints & Fittings or comparable alternative is recommended to wrap the joint.

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Copper

- Streamline Nitrogenized ACR Hard Drawn Copper Tube meets the chemical and physical properties of the ASTM B280/B88 standards
- Copper Alloy is Seamless UNS C12200
- Third party certified by Intertek Testing Services

Polyethylene

- Available in white for air conditioning & refrigeration
- Coating of low density polyethylene (LDPE) resin, contains inhibitors
- Meets ICC requirements for minimum thickness corrosion protective sheathing
- Operating temperatures are in the range of 0-180°F with the coating remaining flexible down
- Provides adequate barriers to prevent galvanic corrosion between dissimilar metals

Plug

- Mueller Industries’ highly durable rubber gas-tight plugs maintain internal gas pressure at temperatures as low as -20°. Plugs & proportional internal pressures are safe at temperatures of over 150°F
- Plugs extend slightly beyond tube ends to protect against damage throughout their use

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Polyethylene-Coated Copper Tube

<table>
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<tr>
<th>Nom Dia.</th>
<th>O.D. Dia.</th>
<th>TYPE K</th>
<th>(TYPE L</th>
<th>COATED ACR</th>
<th>REFRIGERATION</th>
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<tbody>
<tr>
<td></td>
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<td>Lengths</td>
<td>Soft Coils</td>
<td>Lengths</td>
<td>Soft Coils</td>
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<td>1/4&quot;</td>
<td>3/8&quot;</td>
<td>-</td>
<td>60 ft., 100 ft.</td>
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<td>60 ft., 100 ft.</td>
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<td>1/2&quot;</td>
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<td>60 ft., 100 ft.</td>
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<td>60 ft., 100 ft.</td>
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<td>1/2&quot;</td>
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<td>20 ft.</td>
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The following are the three elements that cover the language needed for engineering specifications to allow the use of Coated ACR in petrochemical applications.

**Part 1 – General**

1.1 Summary
- Coated ACR copper tube provides protection against corrosive environments and abrasive damage through a .025” minimum wall thickness of Polyethylene LDPE resin.
- Coated ACR copper tube is continuously marked with size, specification information, manufacturing code and footage every two feet.

**Part 2 – Materials**

2.1 Materials General
- All material applicable to the production of Coated ACR copper tube meets corresponding requirements for ASTM codes and standards.

2.2 Coated ACR Material
- Copper Tube
  1. Streamline Nitrogen charged ACR Hard Drawn Copper Tube meets the chemical and physical properties of the ASTM B280/B88 standards.
  2. Type L Standard Copper Tube manufactured with UNS C12200 Copper Alloy.
- Polyethylene Coating
  1. Color coated white to establish use with refrigeration applications
  2. Coating is low density polyethylene LDPE resin which enhances common corrosion protection associated with standard refrigeration environments.
  3. Contains UV inhibitors to minimize derogation exposed to ultra violate light.
  4. Extruded seamlessly onto copper tubing with a minimum wall thickness .025”
  5. Operating temperature is in the range 0°F – 180°F
  6. Polyethylene coating will remaining flexible down to -40°F
  7. Provides an adequate barrier between dissimilar metals to prevent galvanic corrosion.
- Plug
  1. Rubber based plugs provide a gas-tight seal while maintaining a safe internal gas pressure at temperatures ranging between -20°F 150°F.
  2. Plugs protrude slightly beyond end of tube to provide cushion and protection to end tube during handling.

**Part 3 – Installation**

3.1 Installation and Usage
- Coated ACR tube should be installed and used in accordance with appropriate specifications and codes or based upon Mueller Industries technical recommendations.
DOW DFDA-7059 NT 7
Linear Low Density Polyethylene Resin

DOW DFDA-7059 NT 7 Linear Low Density Polyethylene Resin is an ethylene-butene copolymer which is supplied in pelleted form. It is generally recommended for slot cast thin film applications requiring both clarity and toughness. It is excellent in coextruded, slot cast stretch wrap. This resin is also suitable for use in drip irrigation and hose and tube applications.

Main Characteristics
- High clarity
- High tensile strength
- High elongation
- Good puncture resistance
- Complies with U.S. FDA 21 CFR 177.1520(c) 3.1a. Consult the regulations for complete details.

Properties

<table>
<thead>
<tr>
<th>Test Method Values (English (S.I.))</th>
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<tr>
<td>Melt Index, (I2) at 190°C/2.16 kg, g/10 min</td>
</tr>
<tr>
<td>Density, g/cc</td>
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<tr>
<td>Dart Impact (Method A), g</td>
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<tr>
<td>Elmendorf Tear (Method B), g</td>
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<tr>
<td>Ultimate Tensile, psi (MPa)</td>
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<td>Ultimate Elongation, %</td>
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<tr>
<td>Gloss, 45°</td>
</tr>
<tr>
<td>Haze, %</td>
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</tbody>
</table>

Fabrication Conditions For Cast Film:
- Extrudable by conventional slot cast film extrusion equipment with only minor machine modifications necessary for optimum use.
- Melt Temperature: 520°F (270°C)
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c. use as a critical component in medical devices that support or sustain human life; or  
d. use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction.

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**Additional Information**

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<tr>
<td>U.S. &amp; Canada</td>
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<td>1-989-832-1426</td>
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<td>Mexico</td>
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www.dowplastics.com

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