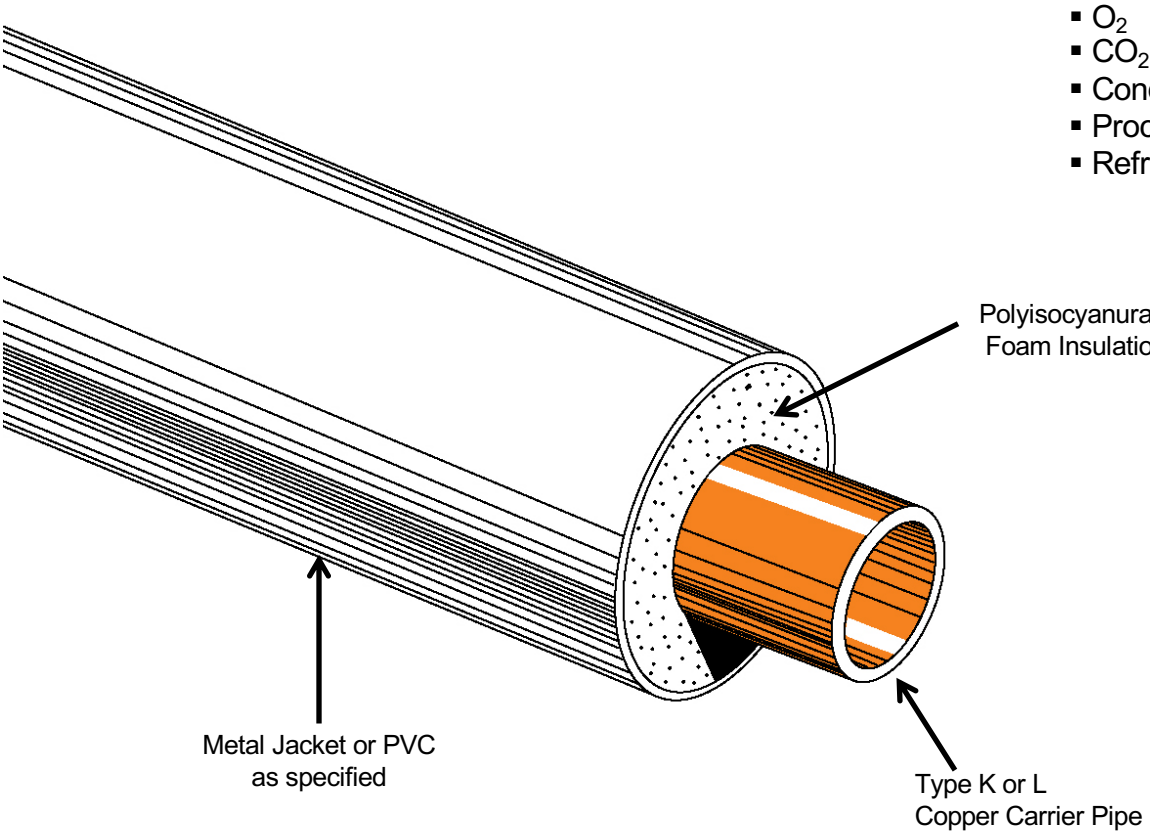
Rovanco Copper Soldered System

For Temperatures to 210ºF Above and Below Ground Applications. *

- Hot Water
- Chilled Water
- Fuel Oil
- O_2
- CO_2
- Condensate
- Process Piping
- Refrigerant Piping



Rovanco's Copper Systems is designed for piping systems above or below ground suitable for inside or outside applications. Carrier pipe insulation is either a polyurethane or polyisocyanurate high quality foam, combined with a durable watertight jacket supplied in 20' random lengths, means an economical, high-quality system.

Rovanco's Copper System is provided with jacketing of PVC or a spiral lock seam jacket of aluminum or galvanized steel which can be supported from the outside with maximum support spans. Fittings can be either insulated or factory fabricated as specified.

The Copper System comes complete with carrier pipe as specified, insulation of your choice, joint insulation materials and jacketing to make the installation completely watertight for applications of Process Fluids, hot water, chill water, etc.

To find out more about Rovanco's Copper Systems call or fax Rovanco at (815) 741-6700, Fax: (815) 741-4229, or visit our factory.

* For higher temperatures, consult factory.

This is a generic product datasheet and is not intended for submittal use.

SPECIFICATION DATA SHEET

Sweat Copper Piping System for Hot Water, Chilled Water, Fuel Oil, O_2, CO_2, Condensate, or Process Piping Applications

Carrier Pipe:
Type (K) or (L) Hard Drawn Copper Tubing conforming to ASTM B-88 in 20-foot lengths

Insulation:
Insulation shall be a polyisocyanurate foam injected with one shot into the annular space between carrier pipe and jacket. Insulation shall be rigid, >90% closed cell polyisocyanurate with a minimum 2.0 lbs per foot^3 density, compressive strength of 30 psi @ 75˚F, an initial thermal conductivity K factor no higher than 0.14 @ 75˚F per ASTM C-518. Maximum continuous operating temperature of polyisocyanurate foam shall not exceed 300˚F. Also available in a 400˚F polyisocyanurate foam.

Jacketing Material for Above Ground:
Shall be spiral lock seam aluminum, galvanized steel or stainless steel in accordance with ASTM A366 and ASTM A256 G90 or as specified. See Table 1 for metal jacket thickness.

Jacketing Material for Below Ground:
High-impact, seamless Polyvinylchloride (PVC) Class 12454-B compound conforming to ASTM 1784, Type 1, Grade 1, No FRP jacketing will be allowed. Minimum jacket thickness shall be in accordance with Table 2.

Consult factory for information on cryogenic services and alternate jacket materials.

Table 1:

Jacket Size In Inches	Aluminum Jacket Spiral Aluminum with impact and Chemical resistance equivalent to H-14 Temper T-3003 in accordance with ASTM-B 313 specifications	Galvanized or Stainless Steel Jacket Spiral Seam in accordance with ASTM A-366 ASTM A-26 G90.
4	22 Gauge	26 Gauge
6	22 Gauge	26 Gauge
8	22 Gauge	26 Gauge
10	22 Gauge	26 Gauge
12	22 Gauge	26 Gauge
14	18 Gauge	22 Gauge
16	18 Gauge	22 Gauge
18	18 Gauge	22 Gauge
20 & larger	18 Gauge	22 Gauge

Joining Method:
Straight lengths of pipe will be joined by solder connection

Fittings and Field Joints:
All fittings will be wrought copper in conformance with job specifications and will be insulated and jacketed with materials supplied by the systems supplier and as per manufacturers standard procedures.

End Seals:
Each length of pre-insulated pipe will be fitted with a watertight mastic end seal at jacket and pipe surfaces. All field cuts will be sealed with a field applied end seals.

Anchors:
All pipe shall be anchored per system supplier's recommendations.

Backfill (If below ground):
Should be tampered compactly in place so as to assure a stable surface. No rock should be used in the first foot of backfill. 24 inches, top of pipe to grade, of compacted fill shall meet H-20 Highway loading.

Manufacturer's Assistance:
Rovanco will provide a field service man on-site to properly train the installing personnel in all phases of installation (if required).

Approved Vendors:
Copper Pipe System by Rovanco, Joliet, Illinois or approved equal. Any alternate supplier must be ISO 9001 Certified and submit their technical data to the engineer ten days prior to bid date to be approved in writing as an equal.

Table 2:

Nominal Pipe Size in Inches	Nominal Insul. Thickness in Inches	Jacket Size in inches	PVC Jacket Thickness in Mils
½"	1.69	4	60
¾"	1.57	4	60
1"	1.44	4	60
1-¼"	1.82	6	70
1-½"	1.93	6	70
2"	1.94	6	70
2-½"	1.68	6	70
3"	1.43	6	70
4"	1.94	8	80

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Contact Rovanco® for the name of your local Representative

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