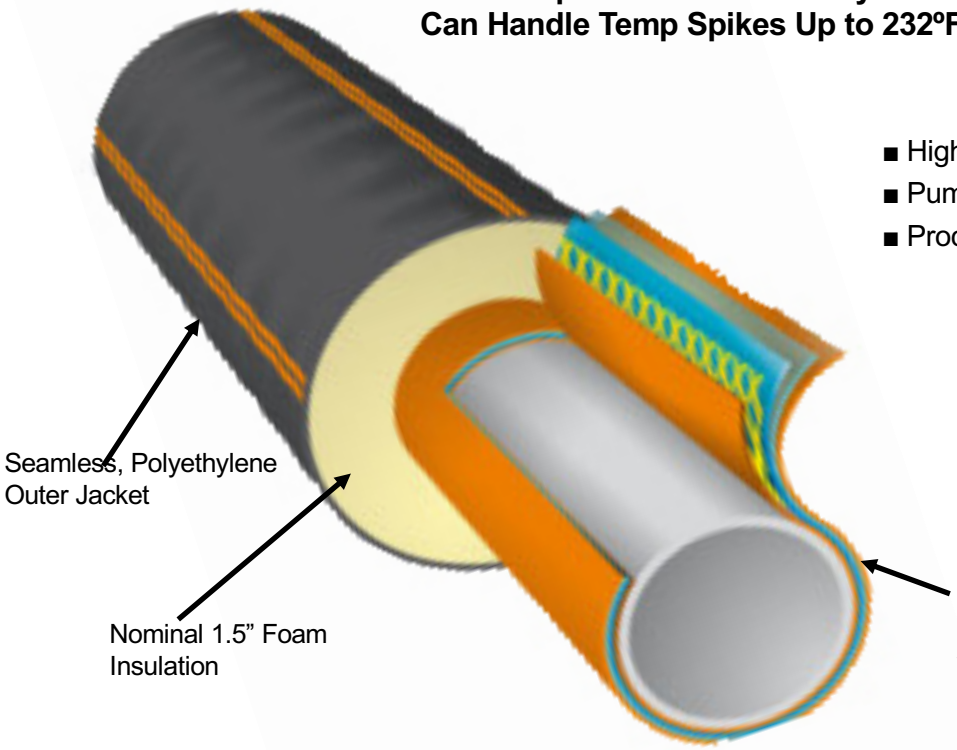
Rhinoflex® HT Pex *by Rovanco®*

High Temperature, Pre-Insulated Pex
Can be Operated Continuously at 210ºF @ 230 PSI and
Can Handle Temp Spikes Up to 232ºF at 200 PSIG



- High Temp Hot Water
- Pumped Condensate
- Process Piping

Rhinoflex HT Pex pipe is designed for temperatures that other Pex pipes can't withstand. It can be used below ground or above ground, in crawl spaces, tunnels, and on pipe racks. The product is composed of a Pex carrier pipe with Kevlar reinforcement, and foam insulation. The insulated pipe is enclosed in a seamless polyethylene outer jacket. This combination of non-corrosive materials provides the user with an economical, high quality, and energy efficient pre-insulated pipe system. Since the system has a seamless polyethylene outer jacket that is non-corrosive, the system does not require cathodic protection.

Rhinoflex HT Pex pipe is provided in long lengths, up to 650 lineal feet on a coil, resulting in few field joints. The pipe can be factory pre-cut to verified field dimensions. All piping systems can be spooled out with elbows, tees, anchors and end seals designed and fabricated at Rovanco's Joliet, Illinois factory.

The piping system comes complete with accessories such as steel pipe to pipe couplings, joint insulation, water tight shrink, weld or flanged adapters, end seals, and polyethylene shrink sleeves to make the installation completely watertight.

To find out more about Rhinoflex HT Pex product, you can call your local representative, or phone Rovanco at (815) 741-6700, fax us at (815) 741-4229, visit our website at www.rovanco.com, or email us at marketing@rovanco.com.

The Most Energy Efficient Pre-Insulated Piping Systems Guaranteed

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

Rhinoflex® HT Pex Guide Specification

HIGH TEMP, PRE-INSULATED PEX PIPING SYSTEM FOR HIGH TEMP HOT WATER, CONDENSATE, ETC.

Carrier Pipe:

All carrier pipe shall be Pex inner pipe with Kevlar reinforcement on the O.D. of the Pex carrier pipe.

Carrier Pipe Insulation:

Insulation shall be a polyurethane foam injected with one shot into the annular space between carrier pipe and jacket. Insulation shall be rigid, minimum 90% closed cell polyurethane with a minimum 2.0 lbs per foot^3 density, compressive strength of 30 psi @ 75˚F and a thermal conductivity K factor no higher than 0.180 @ 75˚F per ASTM C-518. Maximum operating temperature of urethane foam shall not exceed 250˚F. The insulation will be furnished in the thickness as shown in Chart 1 for the respective carrier pipe sizes.

RHINOFLEX High Temp REINFORCED PEX

Nominal Pipe Size		Foam Insulation Thickness	Polyethylene Jacket O.D.
Inches	mm	Inches	Inches
1 ½”	50 mm	1.14	4.40
2”	63 mm	1.25	5.00
2 ½”	75 mm	1.31	5.60
3”	90 mm	1.42	6.40
4”	110 mm	1.08	6.40
5”	125 mm	1.17	7.20
5 ½”	140 mm	1.37	8.00

Jacket Material:

The outer protective jacket shall be corrugated seamless polyethylene completely encompassing and protection the insulation from moisture and damage, designed for H-20 loading at a burial depth of 2-ft minimum. The jacket will be provided in diameter and thickness as shown in Chart 1.

Fittings:

All changes in direction of the carrier pipe shall be made with long radius bends of the Rhinoflex HT fittings or steel fittings. When tee branches are smaller than the main they join, weld-o-lets may be used. All compression, press-fit, welded, or threaded fittings shall be supplied by Rovanco.

Anchors:

Anchors can be pre-fabricated and added into the piping system and shall be made of minimum ½” steel plate. Consult Rovanco for proper design and location of anchor points, if they are required.

End Seals:

Terminal ends of pipe inside manholes, pits or buildings can be equipped with end seals consisting of a heat shrinkable polyethylene with sealing mastic for the carrier pipe and outer jacket surface.

Field Tests:

The carrier pipe shall be field tested hydrostatically to 1-1/2 times the working pressure of the line or as specified. Any leaks shall be repaired and the test repeated. After test, all field joints shall be insulated and sealed water tight with materials and instructions supplied by pipe system supplier.

Back Fill:

Clean, granular backfill should be tamped in place so as to assure a stable surface. No rock larger than 1” should be used within 6” of the pipe. Top of pipe grade shall not be less than 24” to meet H-20 Highway loading.

Installation:

The installation shall be made in accordance with plans, specifications, and manufacturer’s installation instructions. Pipe system supplier will provide an installation instructor on site to train the contractor on all phases of installation if required.

Approved Vendors:

Rhinoflex HT by Rovanco, Joliet, Illinois, 815-741-6700, or approved, ISO Certified, equal. Any alternative supplier wishing to be approved as an equal must submit their technical data to the Engineer of Record for the project ten days prior to bid date for an alternate suppliers product to be approved in writing as an equal to the specified products.

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Contact Rovanco® for the name of your local Representative

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Website: www.rovanco.com • E-mail: marketing@rovanco.com

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