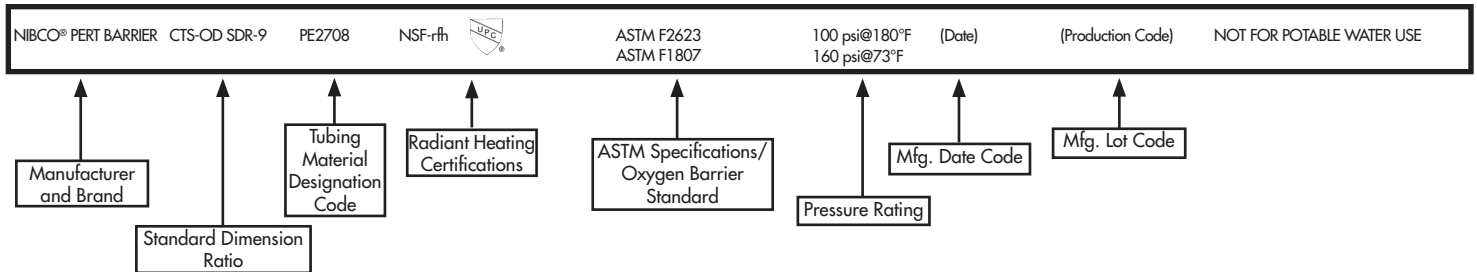


Project Name: _____
 NIBCO Representative: _____
 Unit Tag #: _____ Order by: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____



ENGINEERING SPECIFICATION

Material & Cross Linking: Tubing shall be made of raised temperature high density polyethylene. The PE-RT shall be made in copper tube size dimensions (CTS-OD) with a standard dimension ratio (SDR) of 9 controlling the wall thickness. The oxygen barrier layer on the outside of the tubing shall be made of ethylene vinyl alcohol (EVOH). EVOH is highly resistant to the passage of oxygen.

Standards: Tubing shall meet the following standards:

- ASTM F2623 Standard Specification for Polyethylene of Raised Temperature (PE-RT) SDR 9 Tubing
- ASTM F1807 Standard Specification for Metal Insert Fittings PE-RT Tubing
- DIN 4726.070 Oxygen Permeation
- Not for use with potable water

Performance: Pressure and temperature ratings shall be 80 psi @ 200°F, 100 psi @ 180°F, and 160 psi @ 73°F. Oxygen permeation shall be less than .01grams/m3/day.

PRODUCT DESCRIPTION

NIBCO® BARRIER PERTpro™ is a raised temperature polyethylene tubing used to transport fluids in hydronic radiant heating/cooling/snow-melt systems where oxygen permeation into the system is not desired. This is important where ferrous metal components are used. Fluids in a radiant system shall be of a water or water/glycol mix. The tubing may be placed in concrete, thin slab, sand, behind walls, and in or under wood flooring. BARRIER PERTpro™ is green in color to distinguish it from other types of PE-RT tubing and is available in multiple sizes in both sticks and coils.

PRODUCT DIMENSIONS

| Size | Figure Number | Description | NOM. I.D.* | O.D.* | Coil/Stick Lengths | Volume gal. per 100' |
|------|---------------|-------------------------------|------------|-------|------------------------------|----------------------|
| ½" | PK75 | ½" Green Barrier PE-RT Tubing | 0.485 | 0.625 | 20, 250, 300, 500, 1000 | 0.92 |
| ¾" | PK75 | ¾" Green Barrier PE-RT Tubing | 0.681 | 0.875 | 20, 100, 250, 300, 500, 1200 | 1.84 |
| 1" | PK75 | 1" Green Barrier PE-RT Tubing | 0.845 | 1.125 | 20, 100 | 3.03 |

* See F2623 for dimensional tolerances

OPERATING TEMPERATURE AND PRESSURE

NIBCO® BARRIER PERTpro™ tubing has a pressure rating of 80 psi at 200°F, 100 psi at 180°F and 160 psi at 73°F.