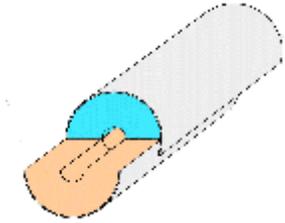


# **INDUSTRIAL INSULATION SALES, INC.**

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## **PRE-INSULATED PIPE SADDLE TYPE K-URSA**

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### **Description**

The K-URSA saddle is a two (2) piece pipe support made of modified polyisocyanurate cellular foam insulation. It has been designed with the best possible insulation values coupled with a high resistance to compression. The K-URSA saddle is intended for use on hot and cold piping in the temperature range of -200°F (-129°C) to +300°F (149°C) in industrial/ commercial mechanical piping markets. The K-URSA saddle meets the Standard Practice guidance of MSS-58, 9.2.2 for Type 40 protection shields and MSS-69, Table 5, maximum hanger spans when band type hangers are used.

### **Construction**

The K-URSA saddle consists of a bottom 180 degree piece of 4# high density modified polyisocyanurate foam insulation which is bonded to a rolled 180 degrees galvanized sheet metal protection shield. The top piece is a 2# density modified polyisocyanurate foam insulation is bonded to a 240 degrees galvanized sheet metal shield. The additional 60 degrees of sheet metal overlap allows the top piece to clamp to itself and stay held into place on the pipe without additional clamping devices.\*

The K-URSA two-piece design allows the saddle to be pre-positioned on the pipe prior to it being lifted up into the piping guides. As the piping is leveled and connections are made, the K-URSA pipe saddle can be slid into the hangers providing permanent insulation blocking. Thereby eliminating the need to remove any temporary leveling blocks when the insulation system is installed. The overall design offers simplifies pipe installation and an uninterrupted run of insulated piping.

### **Advantages:**

- Uninterrupted runs of insulated pipes
- Safety, eliminates potential falling out of temporary blocks of wood
- Ease of installation
- Asbestos and CFC free

**Designed for:** • Hot Water • Cold Water • Chilled Water • Dual Temperature • Refrigerant • Air • Gas •

**Temperature Range:** -250°F (-157°C) to +300°F (+149°C)

**Available sizes:**

- Nominal Pipe Sizes - 1/2" through 24"
- Tubing Sizes - 5/8" through 12"
- other sizes diameter pipe or tubing available

(See reverse side for physical properties)

## **Physical Properties of the K-URSA Saddle:**

### A.) Modified Polyisocyanurate Foam Insulation:

|   |  |  |
|---|--|--|
| Density:<br>(ASTM D 1622)               | Top 180 degree<br>Bottom 180 degree  | 2 lbs. per cu. ft.<br>4 lbs. per cu. ft.           |
| Compressive Strength:<br>(ASTM D 1621)  | Top 180 degree<br>Bottom 180 degree  | 24 lbs per sq. in.<br>80 lbs per sq. in.           |
| Shear Strength<br>(ASTM C 273)          | Top 180 degree<br>Bottom 180 degree  | 15 lbs./in <sup>2</sup><br>42 lbs./in <sup>2</sup> |
| Insulation Values<br>(ASTM C 518)       | k - value .190 BTU·in/hr·sf <sup>2</sup> ·°F - aged 180 days @ 75°F<br>R - value 5.3 Hr·ft <sup>2</sup> ·°F/BTU - aged 180 days @ 75°F@1"thick |  |
| Water Absorption<br>(ASTM C 272)        | < 0.7% by volume   |  |
| Water Vapor Permeability<br>(ASTM E 96) | 4.0 perm per inch  |  |
| Close cell content<br>(ASTM D 6226)     | 90%  |  |

### B.) Outer Metal Jacketing

|        |  |
|--------|--|
| Type:  | Galvanized Steel   |
| Gauge: | 20 - 16 gauge, based on pipe size, insulation thickness and saddle length. |

\* Any construction material which will be placed overhead of any personnel should be evaluated for a potential falling hazard. During installation it may be necessary to add a securing band to the pipe support where excessive pipe movement could occur during installation.

Notice: Polyisocyanurate foam insulation is combustible and should be protected from flame and other heat sources. Since use conditions and government regulations may differ from one location to another, and may change with time, it is the Buyer's responsibility to determine whether this product is appropriate for Buyer's use and to assure Buyer's use, workplace and disposal practices are in compliance with laws, regulations, ordinances and other government enactments applicable in the jurisdiction have authority over the Buyer's operations.