



Tru-Balance 4300E Insulated Saddles

360° Polyisocyanurate Insulated Saddle for Cold or Hot Service



Description

The Tru-Balance Model 4300E Insulated Saddle is designed primarily for indoor use on cold and hot service. It can be used outdoors if it is protected from the weather.

Guide Specifications

The Model 4300E (Extended Insulation) has the insulation extended beyond the saddle for easy application of a tape butt-strip. Always install the specified insulation thickness to insure system performance.

Features and Benefits

- A complete composite assembly, for fast and easy installation.
- Rigid insulation and Zero Perm Vapor Retarder contains no known nutrients that contribute to mold or fungus problems.
- A 360-degree section of polyisocyanurate pipe insulation for greater thermal efficiency and compressive strength. Encompasses a 4.0 PCF bottom support-section and a 3.0 PCF top section.
- Zero perm industrial grade protective covering has 6 mils of thickness for superior condensation control. A premium self seal tape completes the closure of the system.
- A G-90, 180-degree Buckaroos bottom steel shield with centered short ribs for maximum insulation protection at hanger locations. (A 360-degree self-clamping shield is also available.)
- Each unit has a genuine “Quick-Inspect” sticker applied at the bottom of each saddle for easy jobsite engineer or inspector identification after application.
- Unique “Safe-Pack” packaging protects the insulated support during shipment to the jobsite.

Applications

This saddle is intended for indoor use on refrigeration lines, chilled water lines, cold-process piping and thermal-cyclic systems. Use it on cold systems where control of condensation is a critical requirement. Use it on hot systems up to 300°F to standardize saddle specification. It is ideal for domestic hot water and low-pressure (50# max. pressure) steam lines. Insure complete system integrity by eliminating compromised thermal performance at all hanger and support locations. The 4300E saves energy and labor. It can be installed rapidly by any qualified contractor. A wise investment!

Technical Data

Physical Property	Value/Unit	Specification Compliance
Recommended Density	4 Lbs./Cu. Ft. Bottom/ 3.0 Lbs./Cu. Ft. Top	ASTM D-1622
Thermal Conductivity Aged 180 days @75°F	.20 BTU in./hr. ft./sq. °F	ASTM C-518
Service Temperature	-297°F to +300°F	Manufacturer Design Limits
Compressive Resistance	80 P.S.I.	ASTM D-1621
Water Absorption 24-hr immersion, Max % by Volume	<0.7%	ASTM C-272
Shrinkage, Max %	.2%	ASTM D-2126
Insulation Surface Burning Characteristics Flame Spread/Smoke Spread Developed (FS/SD)	25 / 450 up to 6” thickness	ASTM E84
Zero Perm Vapor Retarder: Thickness Average (w/o liner) Perm Rating	6 Mils .00	Manufacturer Specification ASTM E-96, Procedure A
Saddle, Galvanized Carbon Steel Thickness, range	Hot Dipped G-90 22 gauge - 12 gauge	ASTM A-653 (Replaces A527) ASTM A-653 (Replaces A527)

Product Dimensions

Nominal Pipe Size	Insulation Length	Saddle Length	Saddle Gauge
1/2” – 1 1/2”	9”	6”	22 Ga.
2” – 5”	18”	12”	18 Ga.
6” – 10”	18”	14”	16 Ga.
12” – 18”	18”	14”	14 Ga.
20” –24”	18”	14”	12 Ga.

(Replaces previous Tru-balance version-rev 12/2015)