

TECHNICAL DATA SHEET

MINERAL WOOL SECTIONAL PIPE INSULATION (SPI)

Product description and typical applications

Mineral Wool Sectional Pipe Insulation (SPI) is a pre-moulded mineral fibre insulation consisting of chemically inert mineral fibres bonded with a high temperature, thermosetting binder. Each section is precision moulded to ensure a firm fit around piping and other cylindrical shapes. Mineral Wool SPI is supplied in one-piece, one metre lengths, slit along the longitudinal axis to form a hinged joint for easy snap-on installation. Larger diameter pipe sizes are supplied as half sections.

Mineral Wool SPI offers excellent thermal and acoustic performance in both hot and cold applications to conserve energy, maintain process temperatures, provide personnel protection, prevent condensation, and reduce noise emission and transmission. Mineral Wool SPI may be used to insulate steam and process pipes operating at continuous service temperatures from sub-ambient to 649°C.

Physical characteristics

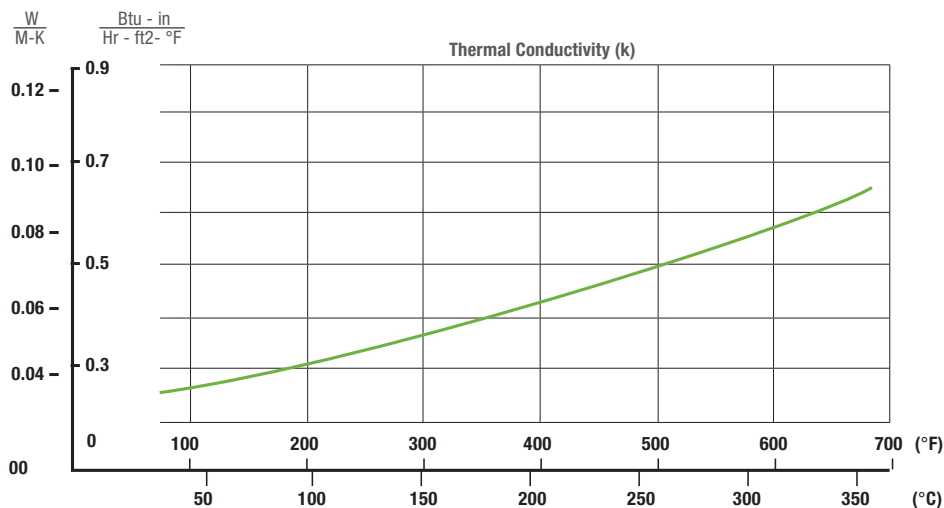
Minimum Pipe O.D.	Maximum Pipe O.D.	Wall thickness	Length	Nominal density
12.7mm	219.1mm	25-75mm	1000mm	120kg/m ³

* Wall thickness is nominal per ASTM C 585. Other sizes available, POA.

Maximum service temperature

Mineral Wool SPI -68°C to 649°C

Thermal performance



Based on measurements made in accordance with ASTM C 335 Steady State Heat Flux Transfer Properties of Horizontal Pipe Insulation.

Additional Information

Moisture resistance	Absorbs less than 1% by weight per ASTM C 1104M
Stress corrosion	Complies with ASTM C-795 (C 692-77 and C 871-77)
Linear shrinkage	<2% at 649°C
Melt point	>1150°C
Combustibility	Rated non-combustible per ASTM E-136; BS476P4/ DIN4102
Surface burning characteristics	Flame spread 0; Smoke developed 0, per ASTM E-84

Fletcher[®]
Insulation

Building Better, Together.

Specification compliance

Mineral Wool SPI complies to the following standards and specifications: ASTM C 547 Type I, II and IV, Grade B, Mineral Fiber Preformed Pipe Insulation; ASTM E 84; rated non combustible per ASTM E 136; ASTM C 302; ASTM C 356; ASTM C 585; ASTM C-411; (Federal Spec. HH-I-558B); BS476P4/DIN4102.

Start up procedure

On initial start-up only, heat rise should not exceed 9°C per minute to allow binder to dissipate without excessive temperature rise. Thermal conductivity is not affected. When insulation is to be used in applications exposed to high air velocities, adequate protection must be provided to prevent erosion of insulation. Severe vibration may cause degradation of insulation under some conditions. Contact your representative for recommendations on unusual applications.

Safety first

Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

General

The information presented herein represents typical or average values obtained by ASTM or other standard methods. The values will vary due to normal manufacturing variations. The individual using this product must determine its suitability for a particular application.

© Fletcher Insulation Pty Limited 2016. Fletcher Insulation reserves the right to change product specifications without prior notification. Information in this publication and otherwise supplied to users as to the subject product is based on our general experience and is given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of products, no warranty is given or is to be implied with respect to either such information or the product itself, in particular the suitability of the product for any particular purpose. The purchaser should independently determine the suitability of the product for the intended application. Unless otherwise stated all TM and [®] are trademarks and registered trademarks of Fletcher Insulation Pty Limited ABN 72 001 175 355. HITDS9_Revision_0_Issue Date 21032016

Fletcher[®]
Insulation
Building Better, Together.