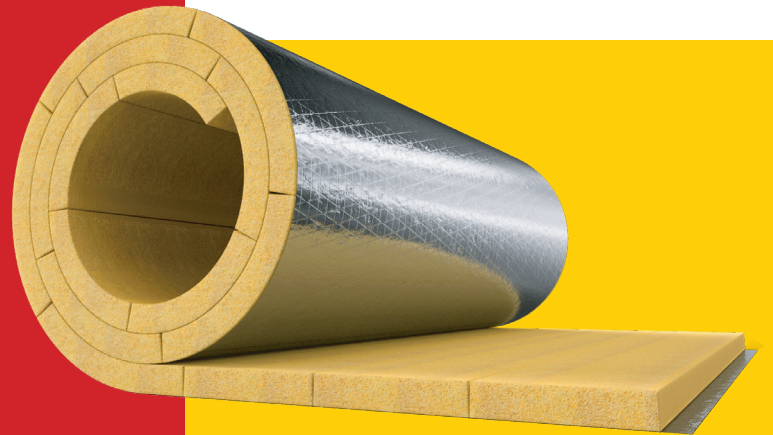




# Pipe Wrap Insulation (PWI)



## Product Description

AFICO Pipe Wrap Insulation consists of a roll of semi-rigid all-purpose fiberglass board insulation composed of fine, stable and uniformly textured inorganic glass fibers bonded together by a non-water soluble and fire-retardant thermosetting and heat resistant resin. It is free from coarse fibers and shot due to its mineral composition.

## Facing

AFICO Pipe Wrap Insulation is supplied in semi-rigid roll types with a factory-applied jacket for applications requiring an integral vapor barrier. Standard jacketing materials include Aluminum Foil Reinforced Kraft Paper Laminate (FRK), the White All Service jacket (ASJ) and the Aluminum Foil Woven Fiberglass jacket (AWF) and the Double Sided Aluminum Foil (DSF). The Fibrous glass insulation is adhered to the jacket with the end grain of the insulation perpendicular to the jacket surface. This construction provides a product that is flexible and easily wrapped around the pipe or tank, while providing the rigidity necessary for a neat durable installation.

## Application

AFICO Pipe Wrap Insulation is designed for use in industrial and commercial systems as thermal and acoustical insulation for large diameter pipes, round ducts and oval ducts at 250 mm (10") or greater. It can be used to insulate pipe flanges, valves, groups of pipes, pipes with tracing lines, vessels and tanks.

## Standard Available Sizes

AFICO Pipe Wrap Insulation (PWI) is made in standard 1.2 meter width, 2-8 meter length packaged in cartons or polybags.

Product Type	Density		K Value@ 24°C		R Value / Thickness									
	Kg/m <sup>3</sup>	Lb/ft <sup>3</sup>	W/m <sup>2</sup> ·°K	BTU-in/hr-ft <sup>2</sup> ·°F	25 mm	1 in.	38 mm	1½ in.	50 mm	2 in.	64 mm	2½ in.	75 mm	3 in.
480	48	3.0	0.032	0.22	0.76	4.28	1.52	8.56	2.27	12.83	3.03	17.11	4.55	25.67
560	56	3.5	0.032	0.22	0.76	4.28	1.52	8.56	2.27	12.83	3.03	17.11	4.55	25.67
640	64	4.0	0.032	0.22	0.80	4.50	1.60	8.90	2.30	13.40	3.10	17.90	4.70	26.80





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## Performance & Physical Characteristics

### Apparent Thermal Conductivity ASTM C518, EN12667

W/m ·°K or Btu ·in/hr ·ft<sup>2</sup> ·°F for all product range - "K" or "λ" value at mean temperatures Data for 10, 24 and 35°C mean temperature.

Nominal K-Value

Product Type	Density		Main Temperature					
	Kg/m <sup>3</sup>	Lb/ft <sup>3</sup>	10°C	50°F	24°C	75°F	24°C	95°F
PWI 480	48	3.0	0.031	0.21	0.032	0.22	0.035	0.24
PWI 560	56	3.5	0.031	0.21	0.032	0.22	0.034	0.24
PWI 640	64	4.0	0.031	0.21	0.032	0.22	0.033	0.23

### Surface Burning Characteristics (ASTM E84, UL 723)

Base glass fiber is non-combustible when tested.

Facing	Flame Spread	Smoke Developed
FRK	≤25	≤50
ASJ	≤25	≤50
AWF	≤25	≤50
DSF	≤25	≤50

### Working Temperature Limitations (ASTM C411)

Operating temperature up to 232°C. At excessive temperatures, limited migration of binder may occur in the insulation in contact with the surface. This in no way impairs the performance of the insulation.

### Mold Growth (ASTM C1338)

Does not breed or sustain mold, fungus, bacteria or rodents.

### Corrosiveness (ASTM C665)

Chemically inert. Will not cause or accelerate corrosion of steel, stainless steel, copper or aluminum, due to its particular inorganic and mineral composition.

### Alkaninity (ASTM C871)

pH 9

### Non-Fibrous (Shot) Content (ASTM C1335)

Not applicable to glass mineral fiber products.

### Specification Compliance

AFICO Pipe Wrap Insulation with the property requirements of the following specifications:

- DCL** : ASTM C 612
- UL 723** : Classified as FHC 25/50 File no. R 37968
- ASTM C795** : Thermal Insulation for use in contact with Austenitic Stainless Steel tested
- SASO** : SASO EN 13162 License # 20240660861
- Global Green Tag** : ARA:DS01:2025:GR
- Global Green Tag** : ARA:DS01:2024:PH
- Emirates GBC** : EmiratesGBC
- SCS Global** : SCS-HPD-09461 SCS-RC-02811 SCS-IAQ-07374 SCS-EPD-08453

### Fire Properties

- B.S. 476 PART 4: Non Combustible
- B.S. 476 PART 5: Ignitability
- B.S. 476 PART 6: Fire Propagation
- B.S. 476 PART 7: Surface Spread of Flame

Class '0' fire rating to the building regulations sections E15

### Facing Information (Flexible Vapor Barrier)

ASTM C 1136 Standard specification for Flexible, Low Permeance Vapor Retarders for Thermal Insulation

### Vapor Permeability (ASTM E 96 A)

- FRK: 0.02 perms
- ASJ: 0.02 perms
- AWF: 0.00 perms

### Puncture Resistance

- FRK: 25 beach units
- ASJ: 85 beach units
- AWF: 1170 beach units

### Installation Recommendation

AFICO Pipe Wrap Insulation products are easily installed.

Length of Pipe Wrap to be cut for specific pipe or duct is determined as follows:

$$\text{Pipe/Duct outside diameter} + (\text{insulation Thickness} \times 2) \times \pi (3.1416) + 75\text{mm for flange}$$

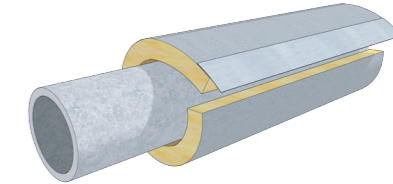
= of pipe wrap to be cut

Use a flap tool or knife to remove a 75mm insulation from one end to make a flange. Each 1.2 meter wide section of Pipe Wrap may be secure around the pipe by using staple (on 75mm centers) and mastic, or by applying staples and vapor barrier pressure sensitive tapes. Adjacent section should be butted together and then sealed with vapor barrier tape. Pipe support must be from the pipe itself or from high compressive strength insulation such as calcium silicate.

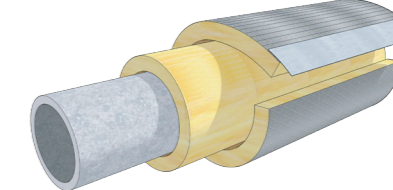
AFICO Pipe Wrap Insulation can also be used to insulate groups of pipes, pipe flanges and valves.

## Typical Applications

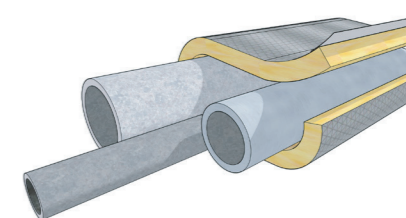
Pipes and Ducts



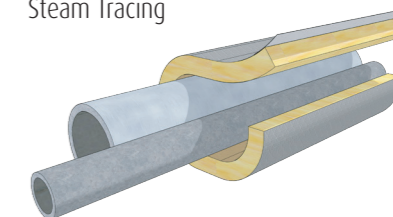
Re-insulation



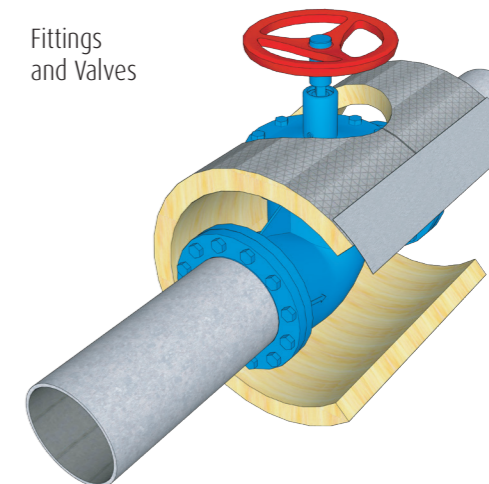
Groups of Parallel pipes



Steam Tracing

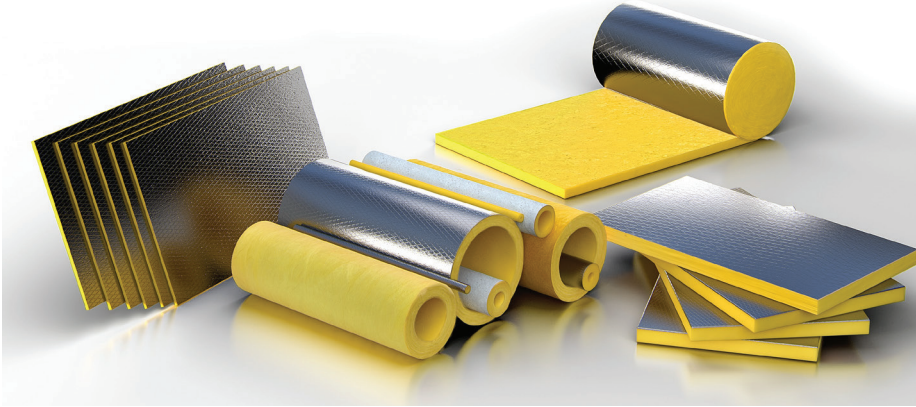


Fittings and Valves





# Pipe Wrap Insulation (PWI)



### Our Product Range includes

- Cavity Wall Insulation • Blanket Insulation • Duct Liner Board • Duct Liner • Faced Duct Wrap • Quiet Liner
- Thermal Insulating Wool • Pipe Wrap Insulation • Quiet Liner Board • Acoustical Ceiling Panels • Board Insulation
- Roof Deck Board Insulation • Heavy Density Pipe Insulation • HD Series Blanket Insulation
- Pre-engineered Metal Building Insulation • Mechanical Board Insulation

### Call us today for more information & professional guidance:

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 GCC & Int'l Export Office (Dubai) : +971 4 294 1211  
 Egypt (Cairo) : +20 100 009 9209  
 North Africa (Tunis) : +216 2 053 1000

Please send all email inquiries to [info@afico.com.sa](mailto:info@afico.com.sa)



## People & Planet Always First

AFICO's products are all energy saving , environmentally friendly , use even more recycled materials and contribute to the fight against global warming .

A Subsidiary of



AFICO operates as a subsidiary of Gulf Insulation Group, With Owens Corning serving as its technology partner

### Maintenance

No maintenance is required. AFICO Pipe Wrap Insulation products have a high resistance to accidental damage from knocks and handling during installation and maintenance. Dimensionally stable under varying conditions of temperature and humidity, rot proof, odorless, non-hygroscopic and will not sustain vermin or fungus due to its inorganic and mineral.

The product will maintain its thermal properties throughout the lifetime of the construction and will not age. AFICO fiberglass is non-toxic and presents no hazard to health.

### Storage

To avoid moisture in the building construction, AFICO insulation products stored outside must be kept dry. We recommend AFICO products to be always stored in covered and dry areas. AFICO is not liable for the damage resulting from inadequate utilization, loading and off-loading and mishandling of its products.

### Warranty

See manufacturer's General Terms and Conditions of Sale. As AFICO and/or OCF has no control over installation design, installation workmanship, accessory materials, or conditions of application, AFICO and/or OCF does not warrant the performance or results of any installation containing their products. This warranty disclaimer includes all implied warranties, including the warranties or merchantability and fitness for a particular purpose.

Arabian Fiberglass Insulation Company AFICO reserves the right to alter product specifications without prior notice, as part of its policy of continued development and improvement. The installation methods described in this leaflet are not compulsory. The choice of materials and methods of fixing are the decision of the specifier, consultant or contractor. For further information or advice on specification of products, contact your local, sales office.

### Availability

Manufactured by Arabian Fiberglass Insulation Company Ltd. (AFICO), a subsidiary wholly owned by Gulf Insulation Group. AFICO has headquarters and production facilities located in Dammam, Saudi Arabia, operating under license from and utilizing the manufacturing specifications and technology of Owens-Corning Corporation (OCF), Toledo, Ohio, U.S.A.

Marketed throughout Saudi Arabia, the G.C.C. countries, the Middle East, and the Far East, AFICO products are available directly as well as through a vast and reliable network of local distributors.



[afico.com.sa](http://afico.com.sa)

**Special products are manufactured on request.**