



PIRMACTM

RIGID

*polyisocyanurate
insulation*



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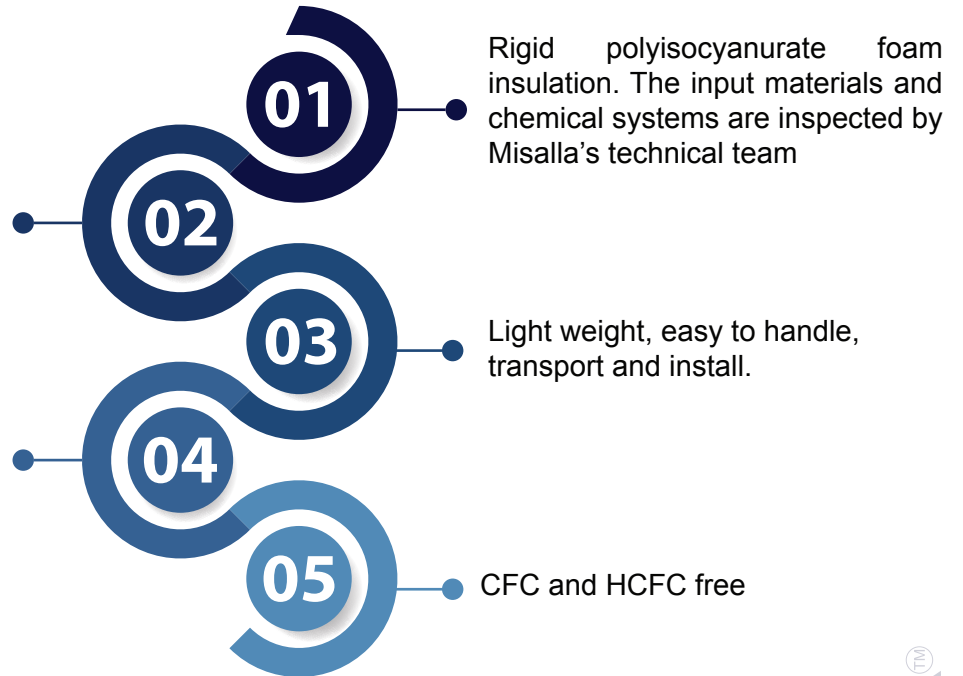
Factory Address: Petrochemical Rd.
Merghem Amria - Alexandria - Egypt

PRODUCT DESCRIPTION

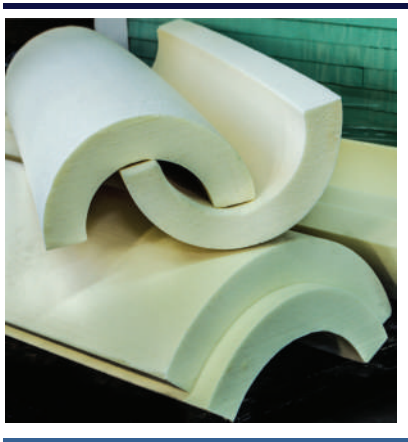
PIRMAC[™] is the superior insulation for cold and cryogenic applications.

Superior insulating efficiencies and ideal for industrial, commercial and residential applications.

High closed cell content consists of a densely cross linked matrix which does not readily break down in service.



RANGE OF APPLICATIONS



- 01 Industrial insulation for pipes, elbows and fittings.
- 02 Industrial insulation for equipment, tanks and vessels.
- 03 Chilled water pipes for HVAC

PIRMAC[™] is a versatile insulation material that has a wide range of applications in various industries including:



- 01 LPG, LNG, Petrochemical, Chemical, Fertilizer and Ethylene plants.
- 02 HVAC- chilled water pipes and ducts works.
- 03 Food, beverage, and pharmaceutical plants.
- 04 Commercial and residential buildings.

PIRMAC[™]

APPLICABLE STANDARDS

PIRMAC[®] range of products are conformed to ASTM C 591 unfaced rigid performed cellular polyisocyanurate thermal insulation.

■ **ASTM C 1621** : Standard test method for compressive properties of rigid cellular plastics.

■ **ASTM C 1622** : Standard test method for density of rigid cellular plastics.

■ **ASTM D 1623** : Standard test method for tensile and tensile adhesion properties of cellular plastics.

■ **ASTM D 2126** : Standard test method for response cellular plastics to thermal and humid ageing.

■ **ASTM D 2856** : Standard test method for open cell content of rigid cellular plastics.

■ **ASTM E 96** : Standard test method for vapour transmission of materials.

FIRE PROPERTIES

01

PIRMAC[®] rigid insulation is conformed to **ASTM E84** .

Superior material for applications that require a flame spread index of 25 or less of 450 when tested according and smoke developed index to **ASTM E84**

02

03

Conformed to German standard DIN 41021981-01 fire behavior of building and components, Section 6.2 building materials vof **CLASS B2**

TECHNICAL PROPERTIES

PIRMAC[®] polyisocyanurate insulation exhibits the properties and characteristics indicated in the attached technical data sheet for all range of densities.

THERMAL PERFORMANCE

PIRMACTM

The high thermal efficiency can achieve the same insulating value with less thickness required by alternative insulation materials, this means less insulating volume budget and accordingly reduce the costs of handling, transportation, joint sealants and vapour barrier materials.

Is suitable for service temperature from (-197) °C to +(149) °C.

Has thermal conductivity as low as 0.023 W/m.k.

Has superior thermal efficiencies due to its closed small and strong cell structure high resistance to moisture absorption.

PRODUCT AVAILABILITY

PIRMACTM insulation products can be supplied in the following forms:

- **Pipe** sections for standard or non-standard sizes.
- **Pipe** elbows and fittings.
- **Radiuses and bevelled segments** for insulation of equipment.
- **Variable sized bun stocks** to reduce wastage and transportation costs.

QUALITY ASSURANCE

Range of products are manufactured to the highest quality standards under a quality control system conformed to ISO 9001:2015 .



HANDLING AND SAFETY CONSIDERATIONS

Care in handling **PIRMAC[®]** insulation is required. The current materials safety data sheet (MSDS) and handling procedures is recommended to be read carefully before handling and storage of **PIRMAC[®]** insulation products.

STORAGE

PIRMAC[®] insulation should be protected from direct exposure to sunlight as with all cellular polymers that degrade upon prolonged exposure to sunlight.

PIRMAC[®] should be covered to block UV radiation.