

INSULATION

FINEfoam140

Specification

The FINEfoam140, CFC-free polyisocyanurate (PIR), is produced as a continuous foam bunstock with the ability to be fabricated into any shape and sizes such as sheets, pipe shells, tank and vessel coverings and custom parts for a variety of insulation, core material and carving applications. While retaining all of the benefits of rigid polyurethane insulation, FINEfoam140 offers greater dimensional stability over a wider service temperature range.



BENEFITS AND ADVANTAGES

- Closed cell structure enabling excellent moisture resistance
- Improved dimensional stability
- Outstanding insulating value
- Low thermal conductivity
- Rigid, lightweight and strong
- Easy to fabricate into virtually any shape & size
- Superior compatibility with polyester and epoxy resins

MAJOR APPLICATIONS

FINEfoam140 may be used for such applications operating within the temperature range -170 to +120 (-274 to +248). It is designed for use in a wide range of applications including :

- Oil refinery & Petrochemical plant
 - LPG/LNG Gas & Cryogenic Plant
 - LPG/LNG Carrier
 - LPG/LNG Receiving Terminals
 - Ethylene/Ammonia Production Plant
 - Cryogenic pipework and equipment
 - Cold Storage & HVAC Applications
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MOISTURE RESISTANCE

Moisture penetration can degrade thermal insulating performance. Since FINEform140 has high-closed cell content and consists of strongly-linked matrix, it does not easily break down in service and shows excellent resistance to moisture penetration. When used with proper installation of vapor barriers, FINEfoam140 provides further improved performance to its insulating system.

THERMAL EFFICIENCY

FINEfoam140 has a fully aged thermal conductivity as low as 0.023 W/mk. (Min. six months aging) Thus it can achieve the same insulating value with a minimal thickness of insulation even in most severe operating conditions. Less insulation can facilitate thinner walls, more space, and fewer and tighter energy-losing seams. Therefore FINEfoam140 insulating system can achieve a lower surface area and cost savings of finishing materials such as expensive vapor barriers, jackets, and mastics.

MECHANICAL PERFORMANCE

The trimer structure of FINEfoam140 enable its insulating system to have outstanding mechanical performance and structural stability in service.

FIRE RESISTANCE

In accordance with the ASTM designation E84-05, Standard Method of Test for Surface Burning Characteristics of Building Materials, FINEfoam140 has a smoke density 250 and a flame spread 25. When exposed to fire, FINEfoam140 does not melt away or spread flame. Thus it may satisfy the requirement or regulations of major industrial standards of the world.

PRODUCT AVAILABILITY

FINEfoam140 is available in the forms of standard & custom blocks, flat slabs, pipe sections, pipe supports and any kind of fabricated shape so that it is able to meet all the requirements of installation for thermal insulation.

TECHNICAL SUPPORT SERVICE

For further information and technical advice, you are welcomed to contact our Technical Service Dept.

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