



High Density (HD)

Harder
Tougher
Stronger

HD Superlon material is a higher density alternative for the regular line of Superlon insulation materials. It is harder, stronger and tougher with a higher tensile strength than other equivalent materials in the market.

HD Superlon material is highly durable with a shore C hardness of greater than 10 and density greater than 70kg/m³. Furthermore, like all other Superlon products, every piece of Superlon HD material is engineered, produced and controlled with stringent procedures to ensure quality and effectiveness.

	Values	Test Methods
Shore C hardness	≥ 10	
Density	≥ 70kg/m ³	
Tensile Strength	290 - 360 Kpa	ASTM D 412
Service Temperature	-40 °C to 105 °C	
Thermal Conductivity W/m-K (Btu-in /hr-ft ² ·°F) Mean temp 20 °C	0.038 (0.27)	ASTM C518



About Superlon

Incorporated in Malaysia in 1992, Superlon Worldwide has accumulated more than 20 years of manufacturing experience in nitrile butadiene rubber (NBR) foam. Its utmost priority is to assure consistent excellence of their insulation materials and provide a service that is second to none. Superlon Worldwide pride themselves in presenting customers with quality products together with prompt and reliable services.

Superlon Tips:

Correct installation will improve the lifespan and performance of the insulation. Key factor good insulation:

- Using correct thickness
- Installing the insulation material correctly

Before you install Determine the thickness of the insulation material based on five factors:

1. Ambient temperature
2. Relative humidity
3. Pipe Size (outer diameter of pipe)
4. Line temperature
5. Medium (gas or liquid)

For example:

	Piping Line Surface Temperature		
	15 °C	5 °C	-18 °C
Normal Conditions Based on average weather experienced in South East Asia Maximum severity of 29 °C and RH of 78%	1/2" (13mm)	1" (25mm)	1 1/2" (38mm)
Severe Conditions Confined and poorly ventilated areas with excessive moisture Maximum severity of 35 °C and RH of 85%	1" (25mm)	1 1/2" (38mm)	2" (50mm)
Mild Conditions Well ventilated air conditioned areas Maximum severity of 26 °C and RH of 70%	3/8" (10mm)	1/2" (13mm)	1" (25mm)

When you install -

- Glue must be applied to both ends of the joining area and allowed to dry before joining the insulation material together.
- Be gentle to avoid deformation of cells (may reduce performance.)
- It is always good to seal joining areas with foam tape to avoid temperature loss through contact with air. only use one insulation tube per pipe. Multiple pipes in one tube allow excess air around the pipe and higher chance of losing temperature.
- Always use aluminium jacketing or apply weather paint for outdoor installation to sustain the lifespan of the insulation material.

For more tips, installing methods and to determine correct thickness, please contact your Superlon advisor.