


# Product Characteristics And Features - Class 1

- Type of Material** ➤ High quality flexible elastomeric closed cell nitrile rubber insulation
- Brief Description** ➤ Flexible elastomeric closed cell nitrile rubber insulation material with high resistance to water vapor, low Thermal Conductivity with good closed cell structure to optimize the prevention of condensation and energy loss over long period
- Color** ➤ Black 
- Application** ➤ Insulation for pipes (copper, metal, pvc), air ducts, vessels (incl. elbows, fittings and flange) in air-conditioning, refrigeration and process equipments to prevent condensation and reduce energy loss.
- Insulflex Features** ➤
- Specially extruded with variable wall thickness of tubing to ensure that surface temperature of insulate pipe are maintained as pipe diameter increased
  - With a layer of well formed skin and good structured closed cell no additional vapor barrier required
  - Dust and fibre free. Non toxic.

## CLASS 1 PRODUCT TECHNICAL SPECIFICATIONS

AVERAGE PHYSICAL PROPERTIES	RATING OF DENSITY	TEST METHODS
Density	60 kg/m <sup>3</sup> to 80 kg/m <sup>3</sup> (Tubing) 50 kg/m <sup>3</sup> to 80 kg/m <sup>3</sup> (Roll)	ASTM D 1667
Thermal Conductivity ("K" Value) @ 20 C mean temperature	0.035 W/mK	ASTM C 518
Service Temperature limit C	- 50 C to + 105 C	ASTM C 354 Type 2
Linear Shrinkage At - 50 Degree C Linear Shrinkage At 105 Degree C	0.20% 3.30%	ASTM C534 : 2016
Thermal Stability 7 Days 200 F (% Shrinkage) 7 Days 200 F	4.5 5.5	ASTM C548
Water Vapor Permeability Per-in Max	0.012 Perm-inch	ASTM E96/E96M-16
Water Vapour Diffusion Resistance Factor	> 10,000	ASTM E96/E96M-16
Average Surface Spread Of Flame	Class 1	BS 476 PART 7
Flammability	V-0, 5VA, HF-1	UL 94
Reaction to Fire	Self Extinguishing, No Dripping	
Measurement of Antibacterial Activity Presence	ATCC 6538P and ATCC 8739 (>3.91 & 3.69) - Passed	ISO 22196 - 2011
Measure of Fungi Growth	Passed	ASTM G21-15
Test For Leachable Ion	Fluoride 0.8 ppm and Chloride 234 ppm - within limits	ASTM 871-95 (Reapproved 2000)

SIRIM QAS Malaysia Listed Product  
REACH and RoHS (SGS) Malaysia  
Listed under Singapore Green Building Product Council

