

Thermo Isolate Insulation (Duct & Pipe Insulation)



It is a crosslinked closed cell Oxide acetate foam used for thermal insulation in AC Ducting, chilled water piping, under deck/ over deck in RCC Roofing, and metallic roofing etc. This is an exclusive product made using 100% in-house foam technology, and Paramount is its sole manufacturer in the world. The principal functionality of this product is to block the heat transfer.

This foam offers the flexibility of Nitrile Rubber and mechanical strength of XPE foam. In short, it combines the advantages of both products. This UV resistive product also has class 0 fire properties as per BS 476 part 6. Material is also offered with factory laminated fibre glass cloth and pure aluminium foil to give higher mechanical strength to the product.

TECHINCAL DETAILS : THERMO ISOLATE INSULATION (Duct & Pipe Insulation) - cross linkedclosed cell Oxide acetate foam

S.No.	Properties	Standard	Technical Details
01	Material		Oxide Acetate Foam
02	Cell Structure		Closed cell, Crossed Linked, Stress Crack Resistant
03	Physical Appearance		Soft, Flexible & Glossy
04	Density	JIS K6767	30 +_3 kg/m3
05	Color		Black
06	Service Temperature Range	Using Climate Chamber	-70 Deg C To100 Deg C
07	Ultra Violet Ray Impact		Negative, Bare Foam is UV resistive
	Thermal Conductivity	IS 3346/1980	0.029 W/MK at 0 Deg C
08	Fire Test		
a	Surface Spread of Flame	BS 476 PART 7	Class 1
b	Fire Propagation Index	BS 476 PART 6	Class O
09	Fungal Resistant	ASTM G-21	Negative (No growth observed)
10	Bacteria Resistance	ASTM G-22	Negative (No growth observed)
11	Mold Growth	IS 3144:1992	Negative (No growth observed)
12	Ageing	ASTM C 177	No Impact of ageing
13	Overall Migration Test	IS 9845 - 1998	Negligible effect of acids & alkalis
14	Water absorption	JIS K6767 - 1976	0.002 G/Cm 2
15	Compressive Strength	ASTM D 3575 - 91	30 KPA
16	Elongation Break	JIS K 6767 - 1976	200 – 250 %
17	Tear Strength	JIS K 6767 - 1976	2.5 KN/M
18	Tensile Strength	JIS K 6767 - 1976	450 KPA
19	Hardness	JIS C	15-20 Degree