

Gulf O Flex

ALUCLAD



Protect mechanical systems and outdoor environments with our best-selling rubber insulation solution. With its presence on various applications, Aluclad is a passive solution to energy efficiency. No need to actively maintain its performance – it's a self-sustaining material designed for thermal purposes. It's lightweight and flexible properties allow the material to undergo heavy stress without breakage.

It's resistance to moisture vapor, mold and mildew growth ensures that its applications have a long lifespan, less downtime and continuing efficiency.

Available through a sheet or tube shape, with or without self-adhesive.



KEY FEATURES & DETAILS



EASY INSTALLATION

With its self-adhesive backing, application is quick and easy. Plus, seamlessly cut, bend, apply and seal the material for various purposes, saving time and cost



UV RESISTANT

Guaranteed to last over 10,000 hours with no crack on surface



SUSTAINABLE

Helps systems utilize less energy, leading to less greenhouse gas emissions. CFC and HCFC free, which means they have 0 ODP (Ozone Depletion Potential)



FIRE RESISTANT

This material is self-extinguishing and has low smoke emission, slowing down or preventing the spread of fire



TECHNICAL DATA SHEET

DESCRIPTION

Gulf O Flex® is Flexible Elastomeric Foam made of Nitrile Butadine Rubber, from thickness 6 mm to 50 mm both in sheet (with or without self-adhesive) and in tube forms. The insulation is then finished with factory applied Alu-Clad facing as a finish product, which can be used for external applications. The facing will protect the insulation from UV rays and minor mechanical damages.

TECHNICAL DATA

PRODUCT MECHANICAL PROPERTIES		
Model	GULF O FLEX® ALUCLAD	
Material	FLEXIBLE ELASTOMERIC FOAM (NBR)	
Cell Structure	CLOSED CELL	
Density	50 - 70 Kg/m ³	ASTM C 302- 13 (2022) / BS EN 1602: 2013
Thermal Conductivity (k) at 35 deg C mean temperature	0.0321 W/m-K	ASTM C518 -17
Operating Temperature Range Contact our Technical Team for applications with temperatures below (-)40°C & higher than (+)105°C	-183 °C to +105 °C	ASTM C 534
Water Absorption	0.16 vol%	ASTM C534/C534M-20/ ASTM C 209-2015
Water Vapour Transmission	0.00 Perm - in	ASTM E96 / 96M
Water Vapour Diffusion Resistance Factor (μ)	>76,366	BS EN 12086:2013
FOIL PROPERTIES		
Thickness	0.230 ± 0.05 mm	
Weight	340 g/m ²	
Tensile Strength	200 N/15 mm	EN ISO 527-3
Elongation at break	48 %	EN ISO 527-3
Tear strength	70 N	EN ISO 527-3
UV stability (internal weatherometer-test)	8 Years	
Emissivity	0.065	
REACTION TO FIRE		
Flammability	Self- Extinguishing	
Fire Rating	Part 6- Class O Part 7- Class I	BS 476
	FSI ≤ 25 SDI ≤ 50	ASTM E 84/ UL 723



Note: For available sizes please refer our packing data

APPLICATIONS & INDUSTRIES



HOT AND COLD WATER PLUMBING

Pipework requires insulation to maintain required temperatures. It traps heat for heating systems and slows freezing of pipes for cooling systems.



HVAC DUCTS

Insulating ductwork helps it remove pollutants from the air inside airtight buildings. This maintains good indoor air quality and a comfortable environment.



REFRIGERATION LINES

Insulation prevents condensation through blocking water vapor. As the cells are tightly packed in, it prevents a lot from going through. It's primarily used in residential & commercial properties, construction, oil & gas, and automotive industries.



OUTDOOR

Engineered with durable facing, this insulation is ideal for external applications, providing long-lasting protection with no need for further cladding.



