

AEROCELL

Nitrile Insulation Tubes & Sheets



AEROFLEX®

Closed Cell Elastomeric Nitrile Insulation Foam

CLASS O

Ideal for
HVAC Projects
and Industrial
Applications



Indian Green Building Council
MEMBER



AEROCELL Class O Nitrile Insulation Sheets/ Tubes

AEROCELL is a closed cell flexible elastomeric foam made from Nitrile rubber. This material has low thermal conductivity and high water vapour diffusion resistance. It is CFC/ HCFC free and dust and fiber free. It ensures energy saving in eco friendly manner. This product meets insulation requirement in diverse fields such as the automobile, air conditioning & refrigeration industry, construction industry, pharma industry, hotels/ hospital and cold storage industry.

Product Features

Completely closed cell elastomeric nitrile insulation | Quick and easy to install with no special tools | Flexible, durable and easy to handle | Excellent compression strength due to closed cell structure. | Superior thermal insulation properties over other open or semi closed cell insulation material | Very high diffusion resistance and no cladding is required if installed inside. | It is available with reinforced aluminium foil, Glass cloth and self adhesive backing | Wide working temperature (-40°C to +105°C). | It meets class O fire performance as per BS 476 Part 6 & 7, UL 94 flammability class V-0 and it is **FM Approved. (Sheet only)**

Size Availability

- 6mm, 9mm, 13mm, 19mm, 25mm and 32mm wall thickness to fit all standard copper and iron pipes diameters from 6mm (1/4") to 108mm (4 1/4").
- Other size available on request.
- Tube length: 2 meters (6.5 ft).
- Available in special sizes and long coils on request.

Specification sheet

Technical Performance

Density	50 Kg/M3 ± 20% Sheet 60 Kg/M3 ± 20% Tube
Temperature Range *	-40°C to +105°C
Thermal Conductivity W/m.K ASTM-C-518 & ISO 8301	≤ 0.035 W/m ² K @ 10°C ≤ 0.036 W/m ² K @ 20°C ≤ 0.037 W/m ² K @ 30°C ≤ 0.038 W/m ² K @ 40°C
Water vapour diffusion Resistance factor μ	≥ 7,000
Ecological Data	No asbestos, No HCFC - CFC, No Formaldehyde - Cd-Hg etc.
Cell Structure	Closed Cell
Ozone resistance	Very Good
Resistance to Oil and Grease	Very Good
Odour	Negligible
Noise reduction	upto 35dB (A)
Reaction to Fire a) Fire Performance acc. To building regulation b) Surface flame spread c) Fire Propagation d) Rate of Burning (Vertical position) e) Practical fire Behaviour	Class 0 - BS 476 Part 6&7 Class 1 BS 476 Part 7:1997 I<12 and I<6 BS 476 Part 6:1989 Class V-0 UL 94:1997 Self-Extinguishing, does not drip and does not spread flames, ASTM D 635-06

* For temperature below -40°C pls consult our engineering group

AEROCELL Tubing (Class O Nitrile Insulation Tube Packing List)

Packing Details for AEROCELL Tubing Tubes:

Size-ID		6mmThk		9mmThk		13mmThk		19mmThk		25mmThk		32mmThk	
mm	inch	Pcs./ Crtn	Mtr./ Crtn	Pcs./ Crtn	Mtr./ Crtn	Pcs./ Crtn	Mtr./ Crtn	Pcs./ Crtn	Mtr./ Crtn	Pcs./ Crtn	Mtr./ Crtn	Pcs./ Crtn	Mtr./ Crtn
6	1/4	250	500	156	312	110	220	54	108				
10	3/8	200	400	120	240	80	160	40	80	25	50		
13	1/2	150	300	100	200	72	144	36	72	20	40		
16	5/8	120	240	90	180	63	126	35	70	20	40	20	40
19	3/4	100	200	72	144	56	112	30	60	20	40	20	40
22	7/8	90	180	64	128	48	96	30	60	18	36	18	36
25	1	80	160	56	112	42	84	25	50	16	32	16	32
28	1 1/8	70	140	49	98	36	72	25	50	16	32	12	24
32	1 1/4	60	120	42	84	30	60	20	40	15	30	12	24
35	1 3/8	60	120	40	80	30	60	18	36	12	24	12	24
38	1 1/2			36	72	25	50	16	32	12	24	12	24
42	1 5/8			30	60	25	50	16	32	12	24	10	20
45	1 3/4			30	60	20	40						
48	1 7/8			28	56	20	40	15	30	10	20	10	20
51	2			24	48	20	40	12	24	9	18	8	16
54	2 1/8			21	42	20	40	12	24	9	18	6	12
57	2 1/4			20	40								
60	2 3/8			20	40	18	36	10	20	9	18	6	12
63	2 1/2			20	40	15	30	10	20				
67	2 5/8			18	36	15	30	9	18	8	16	6	12
73	2 7/8			18	36	13	26	9	18	8	16	6	12
76	3			18	36	12	24	8	16	8	16	5	10
79	3 1/8			16	32	12	24	8	16	8	16	5	10
89	3 1/2			16	32	12	24	6	12	6	12	5	10
92	3 5/8											5	10
98	3 7/8												
102	4							4	8	5	10	4	8
105	4 1/8												
108	4 1/4					8	16	4	8	4	8	4	8
114	4 1/2							4	8	4	8	2	4

Length: 2000 ± 20mm. Thickness from 6mm to 19mm ± 1mm and for 25mm & 32mm ± 2mm.

Tolerance (ID): from 6mm to 42mm +2/-0mm, 42mm to 73mm +3/-0mm and above 73mm +6mm/-0mm.

Note: Special sizes available on request.

Tubes can also be available ID - 127mm, 130mm, 140mm, 165mm size as per customer requirement.

AEROCELL Class O Nitrile Insulation Sheet packing list

AEROCELL Continuous Sheets

Sheet Thickness * (mm)	Dimensions	Roll Content sq. mtr.	Sheet Thickness (mm)	Dimensions	Roll Content sq. mtr.
6	1 x 40m	40	19	1m x 15m	15
9	1 x 30m	30	25	1m x 10m	10
13	1 x 25m	25	32	1m x 8m	8
16	1 x 20m	20			

* 3mm sheet is available with one side skin only | * Tolerance for thickness from 6mm to 19mm ±1mm & for 25mm & 32 mm ±2mm |

* Available in various lamination such as Aluminum Foil, Glass Cloth, Self Adhesive



Manufactured and Marketed by:

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Disclaimer: Although these values represent actual results achieved in tests, they should only be used as a guide. ALP Aeroflex cannot guarantee the performance of the product as all situations are different & should be treated separately. All statements & technical informations are based on results obtained under typical conditions. It is the responsibility of the recipient to verify with us that the informations are appropriate for specific use intended by the recipient.