

# AEROCELL

Ideal for  
HVAC Projects  
and Industrial  
applications

**Closed Cell Elastomeric  
Nitrile Insulation material  
Class O**



# AEROCELL Nitrile Class 'O' insulation sheet/ tubes.

## Benefits

- Excellent insulation properties due to low k-value, that remain unchanged during service life time of hot/cold installation and are unaffected by humidity.
- The closed-cell structure will not absorb or allow the spread of water; thus preventing condensation or frost formation on cooling systems, chilled water & refrigerant lines. No additional water vapour barriers are required.
- Supplied with reinforced aluminium foil, for increased performance and quicker installation. Adhesive backing is also available.
- Wide working temperature (-40°C to +115°C).
- Thinner gauges can be used to achieve effective insulation due to low k-value and high water vapour diffusion resistance ( $\mu$ ) This also allows the use of material in areas with space limitations.

## Application Areas

- Duct Insulation.
- Antimicrobial
- Raised Floor Insulation.
- General Thermal Insulation (large diameter pipes, tanks, vessels, etc).
- AC Unit Insulation (internal insulation of units, evaporators, etc).
- Clean room applications.
- Cold Storage applications.
- Underslab Insulation. Transport segment AC Units
- Chilled Water

## Specifications

Technical Performance	
Density	50 Kg/M <sup>3</sup> $\pm$ 20%(Sheet), 60 Kg/M <sup>3</sup> $\pm$ 20%(Tube)
Temperature Range *	-40°C to + 115 °C
Thermal Conductivity W/m.K ASTM-C-518 & ISO 8301	10 °C 0.0351 W (m.k) 20 °C 0.0362 W (m.k) 30 °C 0.0373 W (m.k) 40 °C 0.0385 W (m.k)
Water vapour diffusion Resistance factor $\mu$	$\geq 7,000$
Corrosion Risk	pH 7 (neutral)
Toxicology	Low Carbon Monoxide Formation meets IMO RES.MSC 61 (67)
Ecological Data	No asbestos, No HCFC - CFC, No Formaldehyde - Cd-Hg etc.
Resistance to Fungi	No growth observed ASTM : G 21
Closed Cell	> 90%
Ozone resistance	Very Good
Resistance to Oil and Grease	Very Good
Odour	Negligible
Noise reduction	upto 35dB (A)
Reaction to Fire BS 476 Part 6 & 7 UL 94	Class 0 VO FM Approved

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

## DUCT FLANGE TAPE

Self Adhesive elastomeric foam gasket tape for air-duct flange connection

Duct Flange Tape is the flexible and self-adhesive insulation foam tape, which is made from Class 'O' Nitrile rubber elastomeric Closed Cell Insulation. Energy saving and very easy to use. Excellent for preventing condensation problems. No problem of delamination. Duct Flange Tape is specially coated with selected acrylic pressure sensitive adhesive providing long service life.



## Aerocell-T

Packaging details for Class 'O' Aerocell 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	4525	170	311.1	110	220	48	87.84				
10	3/8	200	366	120	219.6	90	180	36	72	25	50		
13	1/2	150	274.5	100	183	72	144	30	60	25	50		
16	5/8	120	219.6	90	164.7	63	126	30	60	25	50		
19	3/4	100	183	72	131.76	56	112	30	60	20	40	20	40
22	7/8	90	164.7	60	120	42	84	24	48	18	36	18	36
25	1	80	146.4	50	100	42	84	20	40	16	32	16	32
28	1 1/8	70	128.1	50	100	36	72	20	40	16	32	16	32
32	1 1/4	50	91.5	42	84	30	60	20	40	15	30	15	30
35	1 3/8	60	109.8	36	72	30	60	16	32	12	24	12	24
38	1 1/2							16	32	12	24		
42	1 5/8			30	60	25	50	16	32	12	24	12	24
45	1 3/4			24	48	20	40						
48	1 7/8			28	56	20	40	15	30	10	20	10	20
51	2			24	48	20	40	12	24	09	18	09	18
54	2 1/8			20	40	18	36	12	24	09	18	09	18
60	2 3/8			20	40	15	30	10	20	09	18	06	12
63	2 1/2			18	36			10	20				
67	2 5/8			18	36	13	26	09	18	08	16	08	16
73	2 7/8			18	36	13	26	09	18	08	16	07	14
76	3			18	36	12	24	08	16	08	16	06	12
79	3 1/8			15	30	12	24	08	16	06	12	06	12
89	3 1/2			10	20	12	24	06	12	06	12	05	10
92	3 5/8											05	10
102	4							05	10	05	10	04	08
108	4 1/4							05	10	05	10	02	04
114	4 1/2											02	04

Tube length : 2 Mtrs. (Special Sizes available on request)

Tolerance - ID from 6mm to 42 mm tolerance of + 2mm/-0mm, and above 42mm + 3mm/-0.  
For thickness from 6mm to 19mm  $\pm$  1mm and for 25mm & 32mm  $\pm$  2mm.

## Aerocell-S

Packaging details for Class 'O' Aerocell Sheet Rolls					
Sheet Thickness (mm)	Dimensions	Roll Content sq. mtr.	Sheet Thickness (mm)	Dimensions	Roll Content sq. mtr.
3*	1m x 100m	100	16	1m x 20m	20
6	1m x 40m	40	19	1m x 15m	15
9	1m x 30m	30	25	1m x 10m	10
13	1m x 25m	25	32	1m x 8m	8

\* 3mm sheet is available with one side skin only

Tolerance - Width 1000mm  $\pm$  20mm. Sheet thickness from 6mm to 19mm  $\pm$  1mm and for 25mm & 32mm  $\pm$  2mm.

Processed from **CLASS - O**  
Light weight, flexible  
**elastomeric nitrile rubber foam insulation**

6MM THICK 4" AND 6" WIDTH TAPE ROLL 4.5M





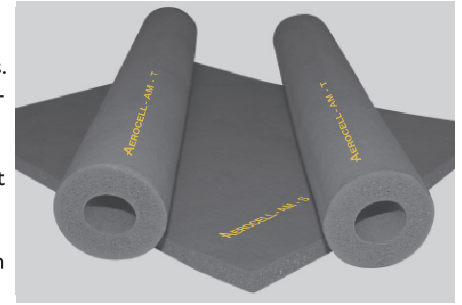
## Aerocell-AM (Anti Microbial)

The new range of anti-microbial cellular elastomeric nitrile rubber insulation from Aerocell.

ALP Aeroflex has regularly displayed an ability to innovate and bring a range of quality rubber products. Continuing in the same spirit to innovate, upgrade and expand, the company has introduced the anti-microbial closed cell expanded elastomeric nitrile insulation.

The improved cell structure has improved thermal insulation properties, superior protection against microbes, fungi and bacteria and improved resistance to moisture and vapour transmission.

This is a light weight flexible foam material designed for clean room insulation applications. It is available in sheet and pipe form.



- Closed cellular structure
- Lower thermal conductivity k Value – improved insulation
- Energy savings
- Fire safe - Class 'O'
- No fungal growth
- Antimicrobial properties
- Excellent resistance to moisture and water vapour diffusion
- Dust and fiber free
- Quick and easy installation
- EPA approved anti-microbial agent

Material	: Elastomeric closed cell nitrile rubber insulation
Colour	: Black
Density	: 50 Kg/m <sup>3</sup> ± 20%
Thermal conductivity	: k = 0.0351 W/m K @ 10°C
Temperature range	: -40°C ~ 115°C
Fire Safety	: Class O, BS 476 part 6 and Part 7
Fungi Resistance	: ASTM G 21
Anti Microbial	: JIS Z 2801/ ASTM G2180
Water vapour diffusion resistance factor μ	≥ 7,000

## ACCOFOAM (Acoustic Insulation)

### Product features

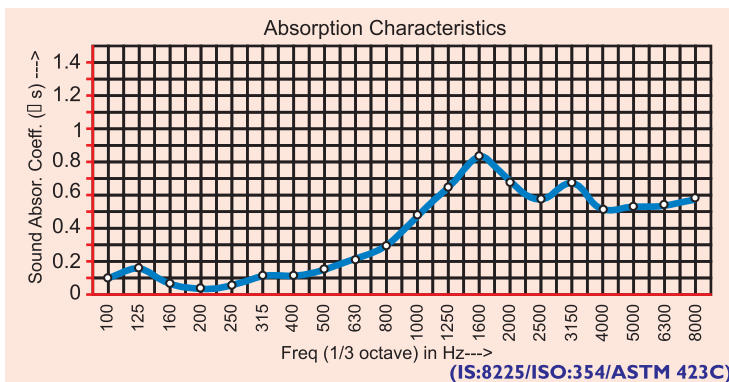
ACCOFOAM is an acoustical convoluted elastomeric nitrile rubber foam material scientifically developed to provide superior sound absorption in the low and mid frequency range. The convoluted shape increases the absorptive surface area than a flat surface and it entraps and deflects sound waves efficiently. ACCOFOAM is a great choice where a fire safe, flexible, light weight, high performance noise absorption material is required. Antimicrobial range is also available.

### Applications

Industry	Acoustic Lining of ducts, Air Handling Units, Acoustic Panels, Speaker box acoustic lining, Enclosures and canopy of factory machinery, fans, generators, engines and compressors.
Transport	Engine enclosures in vehicles and vessels, bus body - anti damping, Operator's cabin.
Health Care	Audiometric room, generator enclosure, Air-conditioning and ventilation ducts.
Commercial Buildings	Auditoriums, Wall acoustics, Multiplexes, Recording room, Studios, Cinema halls, Office Partitions, Discotheque, Home theater, Air - conditioning ducts and ventilation systems.

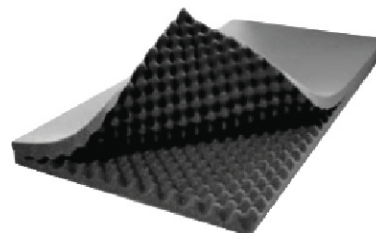
### Technical data

Temperature range	- 40°C to + 115°C
Fire Class	Class "O"
Coefficient of thermal-conductivity	k = 0.0362 W/m K @ 20°C
Colour	Black
Thickness	9, 12, 15, 19 & 25 mm
Density	50 Kg/m <sup>3</sup> ± 20%
Roll Size	8000 X 1000 mm (Special Sizes can be supplied on request )



### Advantages

- Good sound absorption
- Fire Safe – class O
- Vibration/jolting- resistant
- Easy to apply
- Light weight and flexible
- No health hazard
- No fungal growth ASTM G21
- Fiber free



### Method of Use

The sheets are cut to the required shape and carefully stuck using a suitable rubber based adhesive on to a surface that must be free from oil, dirt and dust.

### Note:

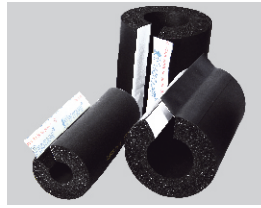
The shaping, thickness and positioning of the material is of major importance to achieve an optimal noise-absorption effect. Pressure sensitive adhesive backing is available against special order.

Tolerance - ID from 6mm to 42 mm tolerance of + 2mm/-0mm, and above 42mm + 3mm/-0. For thickness from 6mm to 19mm ± 1mm and for 25mm & 32mm ± 2mm.

## SPECIAL PRODUCTS

### Retrofit Tube

- Pre-slit insulation tube with self sealing adhesive lining, protape covered
- Thickness 9mm to 32mm
- Inner Dia Options 13mm to 165mm
- Excellent solution for insulating retrofit pipelines
- Energy savings
- Dust and fiber free



## ACCESSORY

### ECO TAPE

Self-adhesive rubber tape for insulation tubes and sheets joints

Self-adhesive Foam Tape processed from Class 'O' Nitrile rubber insulation

Size : 3mm x 50mm x 9.1m  
6mm x 50mm x 4.5m



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