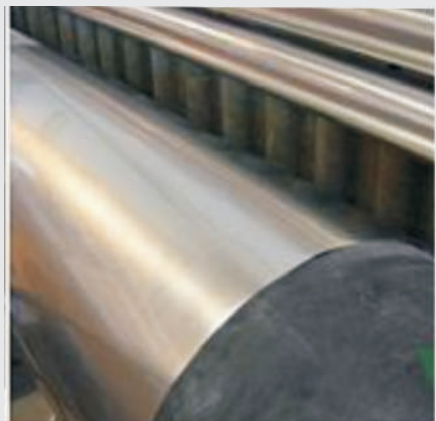




AEROCELL

CLASS 0 WITH SILVER CLAD
INNOVATIVE INSULATION CLADDING SYSTEM



**CLOSED
CELL
ELASTOMERIC
NITRILE
INSULATION
FOAM
WITH 3 LAYER
SILVER CLAD
LAMINATE**



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
- Wide working temperature (-40°C to +105°C)
- It meets Class 0 fire performance as per BS476 Part 6 & 7, UL 94 flammability Class V-0
- Soft water & chemicals resistant ■ UV resistant
- Perfect stain resistant
- 10+ years of life span
- Good impact resistance

APPLICATION

- Construction industry
- Chemical & Petrochemical Industry
- Pharmaceutical Industry
- Food Industry ■ Power Plant ■ Shipbuilding / Offshore
- HVAC
- OEM

AEROCELL CLASS 0 WITH SILVER CLAD SHEETS & TUBES

Aerocell Class 0 is a closed cell Elastomeric Foam made with Nitrile Rubber. With Silver Clad lamination it becomes a perfect solution for the jacketing of insulated pipes, ducts and equipment. A product that combines optimal physical properties, 100% water tightness and vapor barrier, resistance against climatic influences with appealing appearance and easy installation. Aerocell Class 0 has low thermal conductivity and is CFC/HCFC, Dust and fiber free. This insulation material ensures energy saving in eco friendly manner.

Technical Performance

Properties	Values	Test Method
Thermal Insulation Material	Closed cell Elastomeric Nitrile Rubber foam	---
Laminate / Top Layer	Laminated on one side with 350 or 230 µm thick silver clad (Aluminium with PVC backing & a UV protective layer on top)	---
Density (Kg/m ³)	50 ± 20%	ASTM D 1056
Thermal Conductivity (K Value)	≤0.035 W/m ² K at 10°C ≤0.036 W/m ² K at 20°C ≤0.037 W/m ² K at 30°C ≤0.038 W/m ² K at 40°C	ASTM C 518
Service Temperature	-40°C to 105°C	---
Fire & Smoke Characteristics		
a) Fire performance according to building regulation	Class 0	BS476 Part 6 & 7
b) Surface flame spread	Class 1	BS476 Part 7:1997
c) Fire propagation	Total index (I) <12 & sub-index (i1) <6	BS476 Part 6:1989
d) Rate of burning (Vertical Position)	Class V-0	UL 94 - 1997
e) Practical fire behaviour	Self-extinguishing, does not drip, does not spread flame	ASTM D 635-06
Water vapour diffusion resistance index (µ-Value)	≥60000 (with silver clad)	ASTM E - 96
Ozone depleting substances (CFC/HCFC)	Not detected No asbestos	GC - MS
Odour	Negligible	---

AEROCELL (Class 0 with Silver Clad Insulation tube Packing List)																	
Size -ID		9mm Thk		13mm Thk		19mm Thk		25mm Thk		32mm Thk		38mm Thk		40mm Thk		50mm Thk	
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	Pcs/ Crtn	Mtr /Crtn	Pcs/ Crtn	Mtr /Crtn
6	1/4					54	108										
10	3/8					40	80	25	50								
13	1/2					36	72	20	40								
16	5/8					35	70	20	40	20	40						
19	3/4					30	60	20	40	20	40						
22	7/8					30	60	18	36	18	36						
25	1			42	84	25	50	16	32	16	32						
28	1 1/8	49	98	36	72	25	50	16	32	12	24	9	18				
32	1 1/4	42	84	30	60	20	40	15	30	12	24						
35	1 3/8	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	7	14			4	8
45	1 3/4	30	60	20	40												
48	1 7/8	28	56	20	40	15	30	10	20	10	20	6	12			4	8
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	4	8	4	8	4	8
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			4	8		
76	3	18	36	12	24	8	16	8	16	5	10	4	8			4	8
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	3	6	3	6		
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	2	4			2	4
Tolerance :																	
Length : 2000 ±20mm. Thickness : 9mm to 19mm - ±1mm, 25 & 32mm, ±2mm 38 & 40mm - ± 3mm, 50mm - ±3mm.																	
ID : 6mm to 42mm - +2/-0mm, 42mm to 73mm- +3/-0mm and above 73mm - +6mm/-0mm.																	
Note: Special Sizes available on request (ID available 127,130,140,150 & 165mm in selected wall thickness)																	

AEROCELL Class 0 Nitrile Insulation Sheet packing list

AEROCELL Continuous Sheets

Sheet Thickness	Dimensions	Roll Content
6 mm	1 x 40m	40 sq. mtr.
9 mm	1 x 30m	30 sq. mtr.
13 mm	1 x 25m	25 sq. mtr.
16 mm	1 x 20m	20 sq. mtr.

Sheet Thickness	Dimensions	Roll Content
19 mm	1m x 15m	15 sq. mtr.
25 mm	1m x 10m	10 sq. mtr.
32 mm	1m x 8m	8 sq. mtr.

* Tolerance for thickness from 9mm to 19mm ±1mm & for 25mm & 32 mm ±2mm
* Tolerance for width of the sheet: 1000 ± 20mm, 1200 ± 20mm

CERTIFICATION



#SWADESHI



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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.