

AEROFLEX[®]

EPDM closed cell elastomeric thermal insulation



METRIC SYSTEM



THE IDEAL EPDM
THERMAL INSULATION
FOR HVAC & R

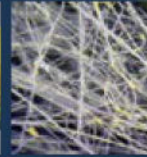
I'm saving your energy.



AEROFLEX closed cell tube and sheet insulation is a flexible and lightweight EPDM based elastomeric material designed for insulating liquid cooling and heating pipelines. The closed cell structure of Aeroflex provides many advantages over most rigid insulations such as:

- Moisture and vapor resistance without using additional vapor barriers.
- Stable thermal conductivity (K. value / λ value) throughout service life, due to its dense surface skin and closed cell characteristics.
- Flexibility which makes installation work easy and neat. Outstanding ultraviolet and weather resistance.

AEROFLEX is an ideal insulation for frost control on sub-zero piping. It prevents heat gain and condensation problems on chilled water and refrigerant pipelines, and it also prevents heat loss from hot water plumbing, liquid and dual temperature piping.



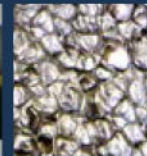
FIBERGLASS (open-cell structure insulation)

Fiberglass thermal insulation is made from compacted small glass fibers. Air occupies the spaces between the fibers which allow atmospheric moisture to penetrate into the insulation, resulting in very high water vapor permeability.



POLYURETHANE FOAM (semi-opened cell structure insulation)

PU Foam is made of polyols and polyisocyanates mixed with HCFCs or similar gases. The cell wall is very thin and brittle, making it semi-opened cell easily. This allows much moisture penetration, which resulting in high water vapor permeability.



AEROFLEX (closed cell structure insulation)

Aeroflex is made from synthetic elastomers based material. The elastomeric material makes Aeroflex flexible with closed cell structure (mainly nitrogen gas inside), resulting in very low water vapor permeability.

MAIN ADVANTAGES

TEMPERATURE RANGE

Aeroflex standard enhances energy-saving and prevents condensation when used in operating temperatures down to -57°C and prevents heat loss up to 125°C . However, for higher temperature up to 150°C , Aeroflex-HT is recommended which is suitable for low pressured steam application, but not suitable for electric heater and radiator system. Within these recommended operating temperatures, it will not affect the thermal efficiency of Aeroflex.

WATER ABSORPTION & MOISTURE PERMEABILITY

The closed cell structure protects against moisture and assure very low water absorption which can eliminate the need for a water vapor barrier in the most applications. However, under severe condition of high humidity (90% RH up), high temperature (40°C up), low ventilation area like tunnel or gutter and also direct to sun light, metal or polymeric jacketing is recommended to use as additional water vapor barrier and greater protection against severe condition.

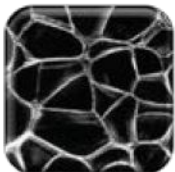
FLAME AND SMOKE PROOF

Aeroflex standard products have been specially formulated to meet and exceed the international fire standards such as ASTM E84, UL94, JIS K 6911, EMPA, IMO A653 and other standards. For other specific international fire standard, Aeroflex also offer Aeroflex-EP for FM approved insulation product. The products have low smoke density while burning and unlike other thermoplastic materials, Aeroflex will not melt nor drip flaming balls, therefore, it will not cause flame transfer.

NON-POLAR MATERIAL

Aeroflex is made from EPDM Synthetic rubber. EPDM rubber is classified as Non-Polar material which is highly water resistant while NBR/PVC is classified as Polar, which slowly dissolves in water and causes surface deterioration. Meanwhile water is also polar material, so continuous contact with condensate water as water vapor damages NBR/PVC insulation much faster than EPDM based insulation.

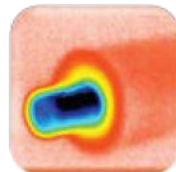
AEROFLEX Outstanding physical properties



Complete cross-linking closed cell structure.



Low density 48-80 kg/m³ [3-5 lbs/ft³] ASTM D 1667.



Low thermal conductivity ASTM C 177, C 518



Wide temperature continuous service ranging from -57°C to $+125^{\circ}\text{C}$.



Low water absorption ASTM D 1058, Low water vapor permeability ASTM E 96.



Excellent ozone and weather resistance ASTM D 1171, D 1149.



Self-extinguish ASTM D 635, Flame proof ASTM E 84 and other fire safety standards.



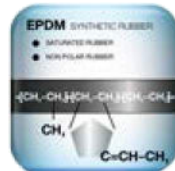
No corrosion on copper pipe even after long period of service.



CFC's, HFC's, HCFC's free product - Ozone friendly product.



Most available sizes from 3mm [1/8"] ID to 204mm [8"] ID with thickness from 3mm [1/8"] to 75mm [3"].



Aeroflex is EPDM based insulation, which is non-polar and has long-lasting service life.



Accredited with ISO standards and comply to major standards worldwide.

PRODUCTS & APPLICATIONS

AEROFLEX TUBE INSULATION

Aeroflex Tube Insulation Standard Product is available from 6mm ID upto 273mm ID with thickness from 6mm upto 100mm. Other sizes are also available upon request. Aeroflex Closed Cell Tube Insulation, made of EPDM (Ethylene Propylene Diene Monomer Synthetic Rubber) as its main raw material, is easily installed to pipe or tubing. The factory-applied coating of talcum powder on the thick and smooth inner skin helps facilitate and speed up preassembly line. When applied to existing lines, tubing should be slit lengthwise and snapped into place. Slitting can be done on the job easily with razors, blades, knives or shears. Cut edges and joints can be sealed with AeroSeal Adhesive (neoprene based contact cement).

AEROFLEX STANDARD SHEET (MS1 & MS2)

The standard sheet is available in 0.5m x 2.0m (MS1) and 1.0m x 2.0m (MS2) with the wall thickness from 3 mm up to 50 mm. It prevents heat loss and condensation on large pipeline, tanks, chillers, air ducts and other irregular shaped vessels.

AEROFLEX SHEET ROLL (MSR)

Aeroflex sheet insulations are also available in continuous roll form. Aeroflex continuous sheet rolls are available from 3mm to 50mm thickness, with the width of 1,000mm, 1,220mm, 1,400mm or above also available upon request. All insulation sheets are made from the same materials as Aeroflex tubing.

AEROFLEX SA/PT

Aeroflex insulation with self-adhesive tape and Protape cover, providing fast and easy installation, time and cost-saving, volatile chemical free without the use of adhesive, and extra protection with Protape cover.

AEROFLEX SHEET WITH ADHESIVE AND ALUMINUM FOIL LAMINATION

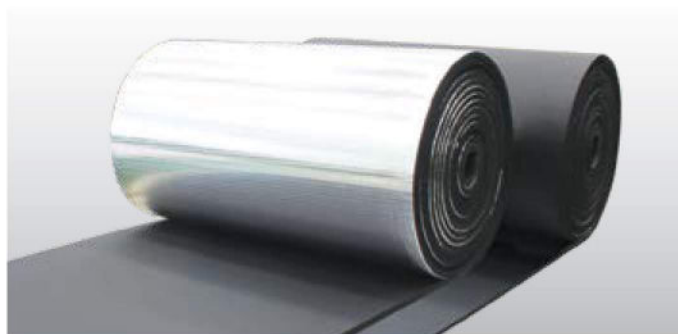
Aeroflex sheet with adhesive and aluminum foil lamination is a lightweight insulation installed on air ducts to prevent condensation, save energy and reduce noise. It helps to minimize mold growth and provides better air quality.

ACCESSORIES

Aeroflex offers the widest range of thickness and sizes both tube and sheet forms. To complement its customer needs, other products including AeroSeal glue, AeroTape foam tape, EverSeal corktape, AeroCoat acrylic emulsion paint, AeroFix rigid foam hanger, etc., are also available at the distribution network of Aeroflex.



Aeroflex is available in continuous sheet roll both with and without aluminum foil lamination to suit different needs.



Aeroflex is available in continuous sheet roll both with and without aluminum foil lamination to suit different needs.



Self-extinguished property, low smoke density, less toxic gases and non-melting characteristic when burnt, making Aeroflex widely used in air-conditioning systems.



Many advantages described above making Aeroflex suitable for insulating chilled water piping.



AEROTAPE



PROTAPE



EVERSEAL



AEROSEAL



AEROFIX



AEROCOAT

PRODUCTS SPECIFICATIONS

AEROFLEX

WIDELY USED TO SAVE ENERGY AND PREVENT CONDENSATION

AEROFLEX standard is an EPDM based closed cell light weight elastomeric thermal insulation specially formulated to meet 25/50 ASTM E 84, Class V-0 UL 94 , Class 5.3 EMPA (Switzerland), IMO (International Marine Organization) and other international fire standards. Aeroflex standard sheet and tube elastomeric thermal insulation are widely used to save energy and prevent condensation problem on chilled water and refrigeration systems. They also efficiently reduce heat loss on hot water plumbing, liquid heating and dual temperature piping.



AEROFLEX-Standard Specificaiton :

Properties*1		Aeroflex					Test Method
Cell Structure		Closed Cell					-
Density lbs/ft ³ (Kg/m ³)		3.0-5.0 (48-80)*2					ASTM D 1667
Thermal Conductivity BTU.in/ft ² hr °F (W/ m.K)	Mean Temp	-4°F (-20°C)	32°F (0°C)	75°F (24°C)	90°F (32°C)	104°F (40°C)	ASTM C 177 ASTM C 518 JIS A 1412 EN ISO 8497
	K-Value	0.215 (0.0310)	0.230 (0.0330)	0.247 (0.0356)	0.256 (0.0365)	0.259 (0.0374)	
Service Temperature *3		-57 °C to 125 °C -70 °F to 257 °F					Becomes hard at -57°C but can be used even at -200°C
Water Absorption		< 10% (by weight) < 0.20% (by volume)					ASTM D 1056 ASTM C 209
Water Vapor Permeability perm.in (g/Pa.s.m)		< 0.10 (1.44 x 10 ⁻¹⁰ g/Pa.s.m)					ASTM E 96
Ozone Resistance		Very Good					ASTM D 1149 ASTM D 1171
UV Weather Resistance		Very Good					ASTM G 154
Heat Stability (%Shrinkage) @ 220°F (104°C) x 7 days		< 7%					ASTM C 534
Flammability & Smoke Density		25/50 Class V-0 Self-Extinguishing Class 5.3 Non-Flammable Pass					ASTM E 84 UL 94 ASTM D 635 EMPA (Switzerland) JIS K 6911 IMO *4
Mold Resistance		Meet Requirement (Rating 1)					UL 181
Fungi Resistance		No Growth					ASTM C1338
Bacteria Resistance		Meet Requirement (Anti-Bacteria)					ASTM E 2180
Corrosion of Copper/ Stainless Steel		Non Corrosive					DIN 1988
Nitrosamine Contents *5		Not Detected					FDA CPG 7117.11
RoHS		Not Detected					EN Restriction of the Use of Hazardous Substances Directive (RoHS) 2002/95/EC
Sound Reduction (AF)		32 dB (20 mm)					DIN EN ISO10052, DIN 4109-11
Flexibility		Excellent					ASTM C 534

Note : *1. Figures show the average values obtained by world's well-known and recognized testing institutes.

*2. • According to ASTM C 534 : The density of this type of insulation material is not a performance property, so density is for reference purpose only.

• Aeroflex has wide range of thickness from 6mm up to 100mm and ID from 6mm up to 273mm, making insulation skin and volume ratio much varied from item to item, in which thicker insulation results in lower density, whereas thinner insulation results in

higher density. Wall thickness below 32mm, the density is 48-80 kg/m³, while wall thickness above 32mm, the density ≥ 40 kg/m³.

*3. At temp. under - 57 °C, AEROFLEX becomes hard but it does not affect thermal conductivity nor water vapor permeability. For heating applications, AEROFLEX can stand upto +125 °C continuously, and the adhesive up to +100 °C.

*4. IMO : International Maritime Organization

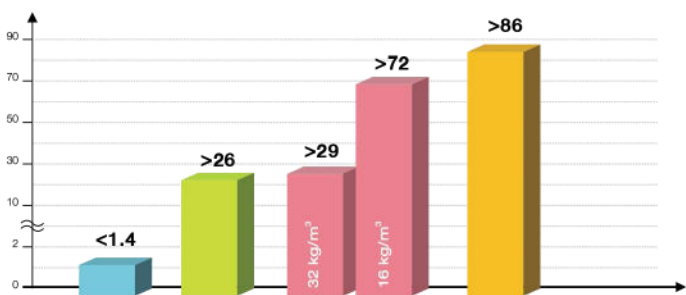
*5. It is reported that Nitrosamin is harmful to human health even during storage. No Nitrosamin compound was detected in AEROFLEX.

CHILLED WATER & REFRIGERATION SYSTEM

AEROFLEX EPDM closed cell elastomeric thermal insulation is a superior insulation for cooling systems that function at below ambient temperature for energy saving by retarding heat gain and also preventing condensation on chilled water and refrigeration lines. Aeroflex also prevents the water pipes from freezing when ambient temperature is below sub-zero point. In areas with high humidity, condensation problems often occur on chilled water pipelines in central cooling systems. The condensation does not only damage ceiling, carpet and other furniture but also waste energy because of higher heat gain on chilled water pipes.

Water Vapor Permeability

$g/Pa.s.m [x 10^{-10}]$



Note : This average water vapor permeability data is based on products without vapor barrier.

Aeroflex : The closed cell structure density 48-80 kg/m^3

Polyurethane Foam : The semi closed cell structure density 32-64 kg/m^3

Polystyrene Foam : The interconnecting cell structure density 16-32 kg/m^3

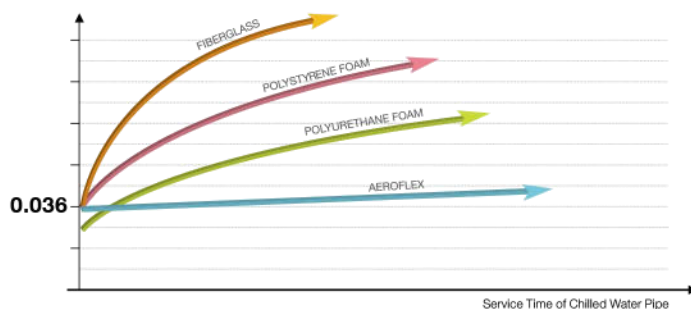
Fiberglass : The open cell structure density 32-64 kg/m^3

AEROFLEX is EPDM-based material with fine cell structure containing dry air (mainly nitrogen gas) which is high resistant to convection heat transfer, and with thousands of cell walls acting as multi-layer water vapor barrier to retard water and moisture penetration, resulting in low and stable thermal conductivity throughout service time. Aeroflex has been widely used in chilled water and refrigeration systems due to the following superior characteristics:

- Great resistance to water vapor penetration and very low water absorption
- Low and very stable thermal conductivity (K. Value)

K. Value (Thermal Conductivity)

$W/m.K$



Note : Service time largely depends on humidity, temperature and installation workmanship. Under high humidity in tropical areas, the low water vapor transmission is important for thermal insulation in chilled water pipeline to maintain stable thermal conductivity [K.value] during service. Condensation problem will occur when the K. value of the insulation increases and the surface temperature of insulation drops below dew point. This happens in insulations with high water vapor transmission and high water absorption. [average K. value of water is approx. 0.60 $W/m.K$]

HOT WATER SYSTEM

AEROFLEX elastomeric thermal insulation is very effective in reducing heat loss on hot water pipings, liquid heating and dual temperature piping in hospitals, hotels, residential buildings, industrial plants, etc. It's also used on central liquid heating system to heat private houses and public buildings. For higher performance in heat resistance and outdoor application, AEROFLEX-HT provides exceptional ozone, ultraviolet and weather resistance, also used for solar-heating and steam-heating applications with service temperature up to +150 °C. No danger of fibrous material when installed in place where hygiene is vital. Aeroflex is manufactured from synthetic polymers which contain no asbestos or fibrous material. The is one of many reasons why Aeroflex is widely selected as replacement for fibrous material

like fiberglass or rock wool used in hot water and low pressured steam pipeline. The closed cell structure and superior elastomeric properties provide the following advantages:

- Service temperature up to +125 °C for Aeroflex Standard and up to +150 °C for Aeroflex-HT
- Outstanding ultraviolet and weather resistance when used outdoor
- Very stable thermal conductivity value throughout service life
- Very low water absorption
- No jacket is necessary even for outdoor piping, unless long term direct contact to sunlight jacketing or protective coating are recommended Flexibility for easy installation



Because of low water absorption and water vapor transmission, Aeroflex is widely used in heating and cooling system.



Stable K value and outstanding weather resistance throughout service life. Aeroflex is widely used in heating system to replace fiberglass.

STANDARD PACKING (Metric System)

AEROFLEX Insulation Tube : 2 Meters Length/Piece

I.D. SIZE		I.P.S.	Code number (Quantity : Pieces/Carton)															
MM	INCH		6 mm wall	9 mm wall	13 mm wall	19 mm wall	25 mm wall	32 mm wall	38 mm wall	50 mm wall	6 mm wall	9 mm wall	13 mm wall	19 mm wall	25 mm wall	32 mm wall	38 mm wall	50 mm wall
6	1/4"	-	M06006 (180)	M09006 (132)	M13006 (80)	M19006 (32)	M25006 (24)	-	-	-	-	-	-	-	-	-	-	-
10	3/8"	-	M06010 (140)	M09010 (110)	M13010 (70)	M19010 (32)	M25010 (24)	M32010 (14)	-	-	-	-	-	-	-	-	-	-
(12)13	1/2"	1/4"	M06013 (110)	M09013 (84)	M13013 (60)	M19013 (32)	M25013 (20)	M32013 (14)	M38013 (10)	M50013 (4)	-	-	-	-	-	-	-	-
(15)16	5/8"	3/8"	M06016 (80)	M09016 (70)	M13016 (50)	M19016 (28)	M25016 (18)	M32016 (14)	M38016 (8)	M50016 (4)	-	-	-	-	-	-	-	-
(18)19	3/4"	-	M06019 (70)	M09019 (60)	M13019 (40)	M19019 (24)	M25019 (18)	M32019 (14)	M38019 (8)	M50019 (4)	-	-	-	-	-	-	-	-
22	7/8"	1/2"	M06022 (70)	M09022 (54)	M13022 (32)	M19022 (20)	M25022 (16)	M32022 (12)	M38022 (8)	M50022 (4)	-	-	-	-	-	-	-	-
25	1"	3/4"	M06025 (60)	M09025 (44)	M13025 (30)	M19025 (18)	M25025 (12)	M32025 (10)	M38025 (8)	M50025 (4)	-	-	-	-	-	-	-	-
28	1-1/8"	-	M06028 (50)	M09028 (36)	M13028 (28)	M19028 (18)	M25028 (12)	M32028 (8)	M38028 (8)	M50028 (4)	-	-	-	-	-	-	-	-
32	1-1/4"	-	M06032 (40)	M09032 (34)	M13032 (24)	M19032 (18)	M25032 (12)	M32032 (8)	M38032 (8)	M50032 (4)	-	-	-	-	-	-	-	-
35	1-3/8"	1"	M06035 (40)	M09035 (32)	M13035 (20)	M19035 (16)	M25035 (10)	M32035 (8)	M38035 (6)	M50035 (4)	-	-	-	-	-	-	-	-
38	1-1/2"	-	M06038 (32)	M09038 (30)	M13038 (18)	M19038 (12)	M25038 (10)	M32038 (8)	M38038 (6)	M50038 (4)	-	-	-	-	-	-	-	-
42	1-5/8"	1-1/4"	M06042 (30)	M09042 (28)	M13042 (18)	M19042 (12)	M25042 (8)	M32042 (8)	M38042 (6)	M50042 (4)	-	-	-	-	-	-	-	-
45	1-3/4"	-	M06045 (28)	M09045 (24)	M13045 (18)	M19045 (10)	M25045 (8)	M32045 (8)	M38045 (6)	M50045 (4)	-	-	-	-	-	-	-	-
48	1-7/8"	1-1/2"	M06048 (24)	M09048 (20)	M13048 (16)	M19048 (10)	M25048 (8)	M32048 (6)	M38048 (6)	M50048 (3)	-	-	-	-	-	-	-	-
51	2"	-	-	M09051 (18)	M13051 (14)	M19051 (8)	M25051 (8)	M32051 (6)	M38051 (4)	M50051 (3)	-	-	-	-	-	-	-	-
54	2-1/8"	-	-	M09054 (18)	M13054 (14)	M19054 (8)	M25054 (8)	M32054 (6)	M38054 (4)	M50054 (3)	-	-	-	-	-	-	-	-
57	2-1/4"	-	-	M09057 (18)	M13057 (14)	M19057 (8)	M25057 (8)	M32057 (6)	M38057 (4)	M50057 (3)	-	-	-	-	-	-	-	-
60	2-3/8"	2"	-	M09060 (18)	M13060 (12)	M19060 (8)	M25060 (6)	M32060 (4)	M38060 (4)	M50060 (3)	-	-	-	-	-	-	-	-
64	2-1/2"	-	-	M09064 (16)	M13064 (10)	M19064 (8)	M25064 (6)	M32064 (4)	M38064 (4)	M50064 (3)	-	-	-	-	-	-	-	-
67	2-5/8"	-	-	M09067 (14)	M13067 (10)	M19067 (8)	M25067 (6)	M32067 (4)	M38067 (4)	M50067 (3)	-	-	-	-	-	-	-	-
73	2-7/8"	2-1/2"	-	M09073 (10)	M13073 (10)	M19073 (6)	M25073 (6)	M32073 (4)	M38073 (3)	M50073 (2)	-	-	-	-	-	-	-	-
76	3"	-	-	M09076 (10)	M13076 (8)	M19076 (6)	M25076 (6)	M32076 (4)	M38076 (3)	M50076 (2)	-	-	-	-	-	-	-	-
80	3-1/8"	-	-	M09080 (10)	M13080 (8)	M19080 (6)	M25080 (6)	M32080 (4)	M38080 (3)	M50080 (2)	-	-	-	-	-	-	-	-
83	3-1/4"	-	-	M09083 (10)	M13083 (8)	M19083 (6)	M25083 (6)	M32083 (4)	M38083 (3)	M50083 (2)	-	-	-	-	-	-	-	-
90	3-1/2"	3"	-	M09090 (8)	M13090 (8)	M19090 (6)	M25090 (4)	M32090 (4)	M38090 (3)	M50090 (2)	-	-	-	-	-	-	-	-
92	3-5/8"	-	-	M09092 (8)	M13092 (8)	M19092 (6)	M25092 (4)	M32092 (4)	M38092 (3)	M50092 (2)	-	-	-	-	-	-	-	-
98	3-7/8"	-	-	M09098 (8)	M13098 (8)	M19098 (4)	M25098 (4)	M32098 (2)	M38098 (3)	M50098 (2)	-	-	-	-	-	-	-	-
102	4"	-	-	M09102 (8)	M13102 (8)	M19102 (4)	M25102 (4)	M32102 (2)	M38102 (2)	M50102 (2)	-	-	-	-	-	-	-	-
105	4-1/8"	-	-	M09105 (6)	M13105 (6)	M19105 (4)	M25105 (4)	M32105 (2)	M38105 (2)	M50105 (2)	-	-	-	-	-	-	-	-
115	4-1/2"	4"	-	M09115 (6)	M13115 (6)	M19115 (4)	M25115 (4)	M32115 (2)	M38115 (2)	M50115 (2)	-	-	-	-	-	-	-	-
130	5-1/8"	-	-	M09130 (4)	M13130 (4)	M19130 (4)	M25130 (2)	M32130 (2)	M38130 (2)	M50130 (2)	-	-	-	-	-	-	-	-
140	5-1/2"	5"	-	M09140 (4)	M13140 (4)	M19140 (4)	M25140 (2)	M32140 (2)	M38140 (2)	M50140 (2)	-	-	-	-	-	-	-	-
165	6-1/2"	6"	-	M09165 (4)	M13165 (4)	M19165 (2)	M25165 (2)	M32165 (2)	M38165 (2)	M50165 (2)	-	-	-	-	-	-	-	-

Note : Other ID and wall thickness are available upon request.

AEROFLEX Standard Sheet Insulation

Sheet Size	Code Number (Quantity : M ² /Carton)									
	3mm wall	6mm wall	9mm wall	13mm wall	19mm wall	25mm wall	32mm wall	38mm wall	50mm wall	
0.5mx2.0m (1m ² /sheet)	MS1-03 (48)	MS1-06 (24)	MS1-09 (16)	MS1-13 (12)	MS1-19 (8)	MS1-25 (6)	MS1-32 (5)	MS1-38 (4)	MS1-50 (3)	
1.0mx2.0m (2m ² /sheet)	MS2-03 (96)	MS2-06 (48)	MS2-09 (32)	MS2-13 (24)	MS2-19 (16)	MS2-25 (12)	MS2-32 (10)	MS2-38 (8)	MS2-50 (6)	

AEROFLEX Continuous Sheet Roll (1 Meter Width Roll)

Code	Size			
	Thickness (mm)	Width (m)	Length (m)	Area/Roll (m ²)
MSR 03*	3	1.0	45	45
MSR 06*	6	1.0	22	22
MSR 09*	9	1.0	15	15
MSR 13*	13	1.0	11	11
MSR 16	16	1.0	10	10
MSR 19	19	1.0	7	7
MSR 25	25	1.0	5	5
MSR 32	32	1.0	4	4
MSR 38	38	1.0	3	3
MSR 50	50	1.0	2	2

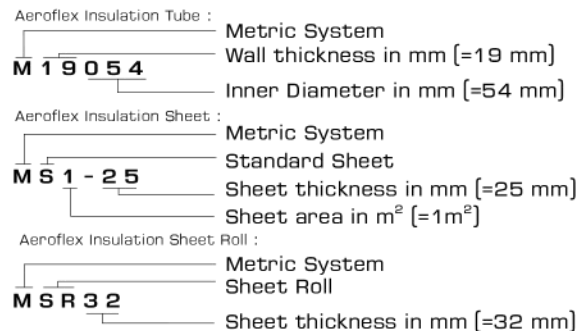
Note : *3, 6, 9mm thick sheet have one side skin.

AEROFLEX Average Nominal Wall Thickness Insulation Tube

I.D. SIZE	nominal wall 1/4" (6mm)	nominal wall 3/8 (9mm)	nominal wall 1/2" (13mm)	nominal wall 3/4" (19mm)	nominal wall 1" (25mm)	nominal wall 1-1/4"(32mm)	nominal wall 1-1/2"(38mm)	nominal wall 2" (50mm)
9mm. to 28mm.	6 ± 1 mm.	9 ± 1	12.5 ± 1	19 ± 1	25 ± 1	32 ± 2	38 ± 2	50 ± 2
32mm. to 80mm.	7 ± 1 mm.	9.5 ± 1	13.5 ± 1	20 ± 1	26 ± 1	33 ± 2	39 ± 2	51 ± 2
90mm. to 140mm.	-	10 ± 1	14.5 ± 1	21 ± 1	27 ± 1	34 ± 2	40 ± 2	52 ± 2

Note : I.D. size 9mm to 28mm : +approx. 1.5mm ; I.D. size 35mm to 80mm : +approx. 2.0mm ; I.D. size 90mm to 140mm : +approx. 3.0mm ; Aeroflex 2m length : 200±3cm

Decoding of Aeroflex Insulation (Metric Unit):



AEROFLEX IN SERVICE WORLDWIDE

AEROFLEX thermal insulation has been widely installed in thousands of high standard buildings including hotels, hospitals, office buildings, universities, shopping centers, international airports, nuclear power stations, and other industrial buildings worldwide.



• MBK Shopping Center, Thailand



• Ferrari World, Abu Dhabi



• Fukushima Nuclear Power Plant, Japan



• Super Brand Mall, Shanghai



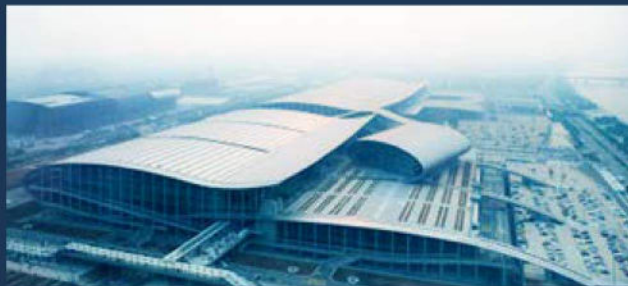
• Burj Khalifa, Dubai



• Suwanaphumi International Airport, Thailand



• Central World Bangkok, Thailand



• Guangzhou International Exhibition Center, China



• Swiss International Airport



• Crown Regency Hotel, Philippines



• Royal Cliff Resort, Pattaya



• Atlantis Palm Jumeirah, Dubai



• Swiss Federal Institute of Technology Zurich (ETH), Switzerland



• Skypark Marina Bay Sands Resort, Singapore



• ... and many other high standard projects.



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