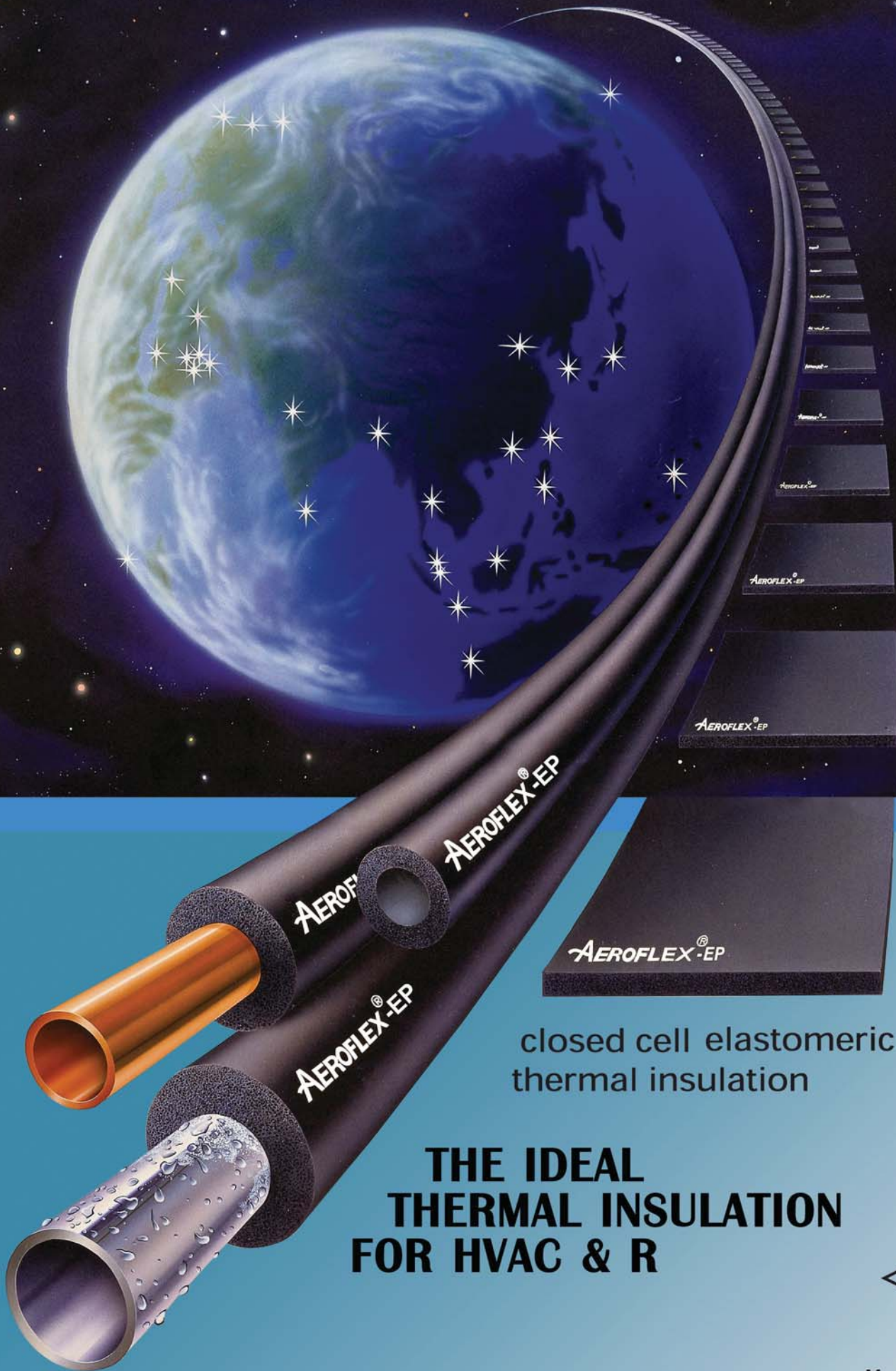




# AEROFLEX<sup>®</sup>-EP



closed cell elastomeric  
thermal insulation

**THE IDEAL  
THERMAL INSULATION  
FOR HVAC & R**



Made in Thailand

# AEROFLEX-EP<sup>®</sup>

## CLOSED CELL ELASTOMERIC THERMAL INSULATION

**Aeroflex-EP** is a light weight, flexible closed cell elastomeric thermal insulation in both sheet and tube form designed for insulating liquid cooling and heating pipe lines and also air ducting system to save energy and prevent condensation.

**Aeroflex-EP** is an EPDM based closed cell elastomeric thermal insulation specially formulated to meet Factory Mutual Approvals. FM has approved AEROFLEX-EP that it will not contribute significant fire according to FM fire test methods: Approval Standard for Pipe and Duct Insulation No.4924



### AEROFLEX-EP<sup>®</sup> Specification:

Properties *1		Aeroflex-EP					Test Method
Cell Structure		Closed Cell					-
Density lbs/ft <sup>3</sup> (Kg/m <sup>3</sup> )		3.0-5.0 (48-80)					ASTM D 1667
Thermal Conductivity BTU.in/ft <sup>2</sup> hr °F (W/ m.K)	Mean Temp	(0°C) 32°F	(10°C) 50°F	(20°C) 68°F	(30°C) 86°F	(40°C) 104°F	ASTM C 518 EN ISO 8497
	K-Value	0.250 (0.036)	0.257 (0.037)	0.263 (0.038)	0.272 (0.039)	0.277 (0.040)	
Service Temperature *2		-70 °F to 257 °F -57 °C to 125 °C					Becomes hard at -57 °C but can be used even at -200 °C
Water Absorption		< 10% (by weight)					ASTM D 1056
		< 0.20% (by volume)					ASTM C 209
Water Vapor Permeability perm.in (g/Pa.s.m)		< 0.10 (1.44 x 10 <sup>-10</sup> g/Pa.s.m)					ASTM E 96
Ozone Resistance		No Crack					ASTM D 1149 ASTM D 1171
Flexibility		Excellent					ASTM C 534
Heat Stability (%Shrinkage) @ 220°F (104°C) x 7 days		< 7%					ASTM C 534
Flammability *3		FM Approved					Approval Standard for Pipe and Duct Insulation No.4924
		Class V-0					UL 94
RoHS		Pass					Latest RoHS Directive

Note : \*1 Figures show the average values obtained by world well-known testing institutes

\*2 At temperature under -57 °C, Aeroflex-EP becomes hard but it doesn't affect thermal conductivity value.

\*3 Aeroflex-EP is listed in FM approval guide which supplied in wall thickness from 5-50 mm. for tubular shape for application over pipes up to 165 mm. (6½ inch) diameter and 3-57 mm. thickness for flat sheet for application over large diameter piping and ducts.

# STANDARD PACKING

## AEROFLEX-EP 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	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-EP Pre-Cut Sheet Insulation (4 Feet Length/Sheet)

I.D. Size [IPS]	Sheet Size	Code Number [Quantity : Sheets/Carton]					
		1/2" wall (13 mm)	3/4" wall (20 mm)	1" wall (25 mm)	1-1/4" wall (32 mm)	1-1/2" wall (38 mm)	2" wall (50 mm)
4-1/2" (4"IPS)	17" x 48"	P12412 (24)	P34412 (16)	P10412 (12)	P114412 (10)	P112412 (8)	P20412 (6)
5-1/2" (5"IPS)	21" x 48"	P12512 (12)	P34512 (8)	P10512 (6)	P114512 (5)	P112512 (4)	P20512 (3)
6-1/2" (6"IPS)	24" x 48"	P12612 (12)	P34612 (8)	P10612 (6)	P114612 (5)	P112612 (4)	P20612 (3)
8-1/2" (8"IPS)	30" x 48"	P12812 (12)	P34812 (8)	P10812 (6)	P114812 (5)	P112812 (4)	P20812 (3)
10-1/2" (10"IPS)	36" x 48"	P121012 (12)	P341012 (8)	P101012 (6)	P1141012 (5)	P1121012 (4)	P201012 (3)

Note : The above sheet size is for 1" wall thickness. For other thickness pre-cut sheet size will vary to cover circumference

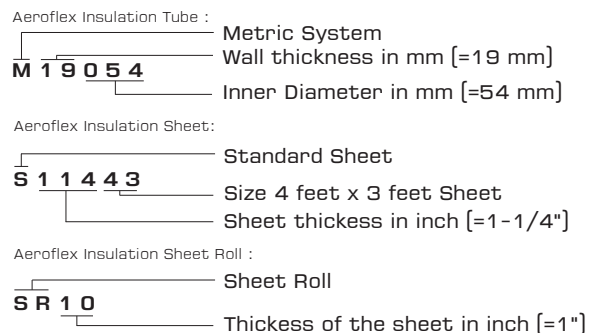
## AEROFLEX-EP Standard Sheet Insulation (4 Feet x 3 Feet Sheet)

Sheet Size	Code Number [Quantity : Sheets/Carton]								
	1/8" wall	1/4" wall	3/8" wall	1/2" wall	3/4" wall	1" wall	1-1/4" wall	1-1/2" wall	2" wall
36" x 48"	S 1843 (48)	S 1443 (24)	S 3843 (16)	S 1243 (12)	S 3443 (8)	S 1043 (6)	S11443 (5)	S11243 (4)	S 2043 (3)

## AEROFLEX-EP Continuous Sheet Roll (4 Feet Width Roll)

Code	Size			
	Thickness (inch)	Width (ft)	Length (ft)	Ft <sup>2</sup> /Roll
SR 18*	1/8"	4	150	600
SR 14*	1/4"	4	72	288
SR 38*	3/8"	4	50	200
SR 12*	1/2"	4	36	144
SR 58	5/8"	4	32	128
SR 34	3/4"	4	23	92
SR 10	1"	4	18	72
SR 114	1-1/4"	4	13	52
SR 112	1-1/2"	4	10	40
SR 20	2"	4	8	32

### Decoding of Aeroflex Insulation:



Note : \*1/8", 1/4", 3/8", 1/2", thick sheet have one side skin.



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**AEROFLEX CO.,LTD** [Total area 100,000 m<sup>2</sup>]

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Distributor :



**APPROVED**

# Certificate of Compliance

This certificate is issued for the following:

Aeroflex-EP, Aeroceel-EP

**Prepared for:**

Aeroflex Company Limited  
111/7, 111/11 Mu2, Tambol Makhamku  
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Thailand

FM Approvals Class: 4924

Approval Identification: PR451915

Approval Granted: 6/16/2020

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

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