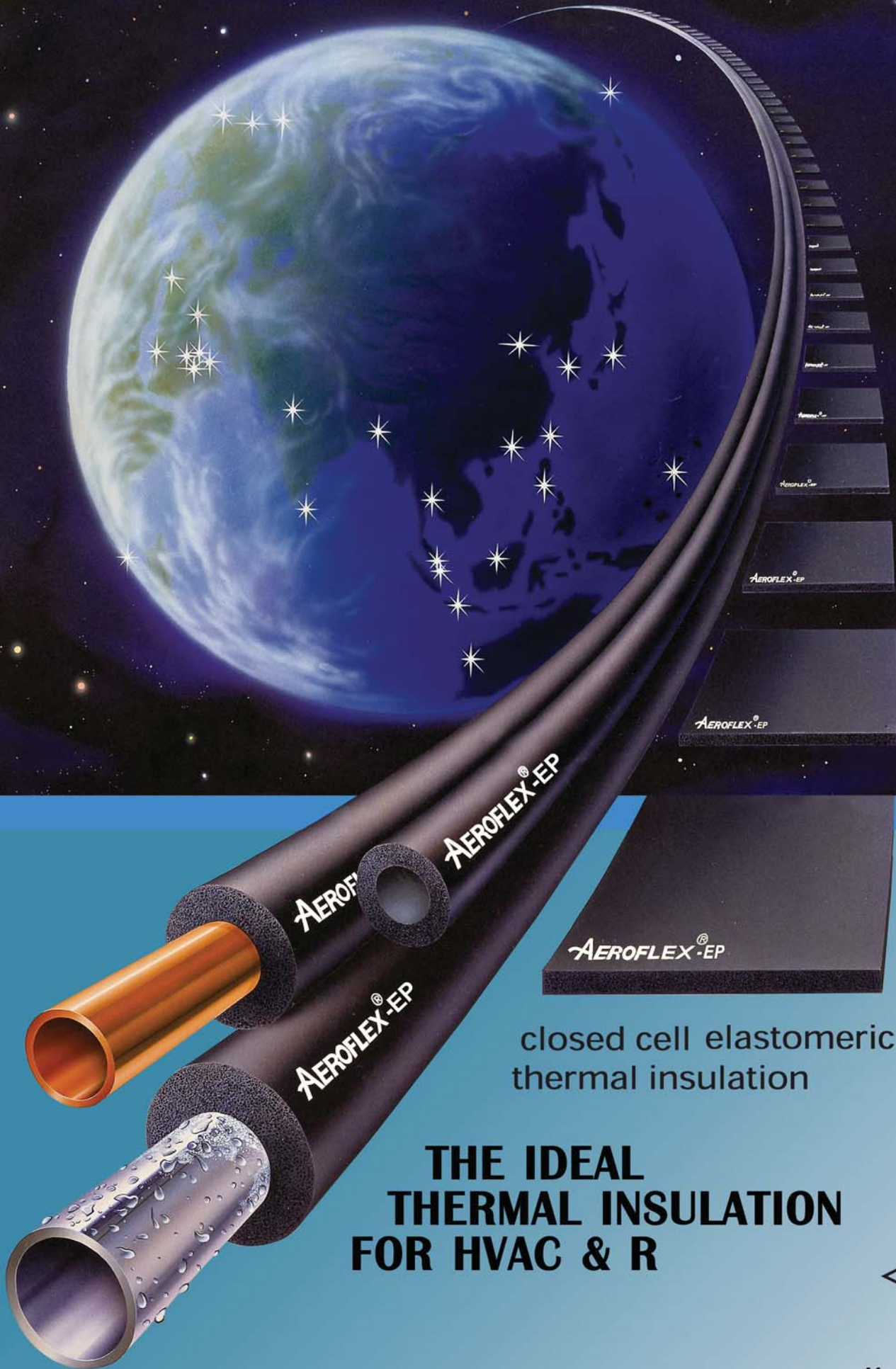




# AEROFLEX-EP



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** tube and sheet insulation have been specially compounded to meet ASTM C 534 with low flammability performance according to FM approval standard pipe chase test number 4924 for insulation tube and UBC standard 26-3 room fire test for insulation sheet.



### 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					UBC 26-3
		FM Approved					FM pipe chase test no.4924
		Class V-0					UL 94
RoHS		Not Detected					EN Restriction of the Use of Hazardous Substances Directive (RoHS) 2002/95/EC

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		1/4" wall (6 mm)	3/8" wall (10 mm)	1/2" wall (13 mm)	3/4" wall (19 mm)	1" wall (25 mm)	1-1/4" wall (32 mm)	1-1/2" wall (38 mm)	2" wall (50 mm)	
6	1/4"	-	M06006 (180)	M10006 (120)	M13006 (80)	M19006 (32)	M25006 (24)	-	-	-	-
10	3/8"	-	M06010 (140)	M10010 (100)	M13010 (70)	M19010 (32)	M25010 (24)	-	-	-	-
(12)	13	1/4"	M06013 (110)	M10013 (80)	M13013 (60)	M19013 (32)	M25013 (20)	M32013 (14)	-	-	-
(15)	16	5/8"	M06016 (80)	M10016 (60)	M13016 (50)	M19016 (28)	M25016 (18)	M32016 (14)	M38016 (8)	M50016 (4)	-
(18)	19	3/4"	M06019 (70)	M10019 (50)	M13019 (40)	M19019 (24)	M25019 (18)	M32019 (12)	M38019 (8)	M50019 (4)	-
22	7/8"	1/2"	M06022 (70)	M10022 (50)	M13022 (32)	M19022 (20)	M25022 (16)	M32022 (12)	M38022 (8)	M50022 (4)	-
25	1"	-	M06025 (60)	M10025 (40)	M13025 (30)	M19025 (18)	M25025 (12)	M32025 (10)	M38025 (8)	M50025 (4)	-
27	-	3/4"	M06027 (60)	M10027 (40)	M13027 (30)	M19027 (18)	M25027 (12)	M32027 (10)	-	-	-
28	1-1/8"	-	M06028 (50)	M10028 (32)	M13028 (28)	M19028 (18)	M25028 (12)	M32028 (8)	M38028 (8)	M50028 (4)	-
32	1-1/4"	-	M06032 (40)	M10032 (32)	M13032 (24)	M19032 (18)	M25032 (12)	M32032 (8)	-	-	-
35	1-3/8"	1"	M06035 (40)	M10035 (30)	M13035 (20)	M19035 (16)	M25035 (10)	M32035 (8)	M38035 (6)	M50035 (4)	-
38	1-1/2"	-	M06038 (32)	M10038 (28)	M13038 (18)	M19038 (12)	M25038 (10)	M32038 (8)	-	-	-
42	1-5/8"	1-1/4"	M06042 (30)	M10042 (24)	M13042 (18)	M19042 (12)	M25042 (8)	M32042 (8)	M38042 (6)	M50042 (4)	-
45	1-3/4"	-	M06045 (28)	M10045 (24)	M13045 (18)	M19045 (10)	M25045 (8)	M32045 (8)	-	-	-
48	1-7/8"	1-1/2"	M06048 (24)	M10048 (20)	M13048 (16)	M19048 (10)	M25048 (8)	M32048 (6)	M38048 (6)	M50048 (3)	-
51	2"	-	-	M10051 (18)	M13051 (14)	M19051 (8)	M25051 (8)	M32051 (6)	-	-	-
54	2-1/8"	-	-	M10054 (18)	M13054 (14)	M19054 (8)	M25054 (8)	M32054 (6)	M38054 (4)	M50054 (3)	-
57	2-1/4"	-	-	M10057 (18)	M13057 (14)	M19057 (8)	M25057 (8)	M32057 (6)	-	-	-
60	2-3/8"	2"	-	M10060 (16)	M13060 (12)	M19060 (8)	M25060 (6)	M32060 (4)	M38060 (4)	M50060 (3)	-
64	2-1/2"	-	-	M10064 (16)	M13064 (10)	M19064 (8)	M25064 (6)	M32064 (4)	-	-	-
67	2-5/8"	-	-	M10067 (14)	M13067 (10)	M19067 (8)	M25067 (6)	M32067 (4)	M38067 (4)	M50067 (3)	-
73	2-7/8"	2-1/2"	-	M10073 (10)	M13073 (10)	M19073 (6)	M25073 (6)	M32073 (4)	M38073 (3)	M50073 (2)	-
76	3"	-	-	M10076 (10)	M13076 (8)	M19076 (6)	M25076 (6)	M32076 (4)	-	-	-
80	3-1/8"	-	-	M10080 (10)	M13080 (8)	M19080 (6)	M25080 (6)	M32080 (4)	M38080 (3)	M50080 (2)	-
83	3-1/4"	-	-	M10083 (10)	M13083 (8)	M19083 (6)	M25083 (6)	M32083 (4)	-	-	-
90	3-1/2"	3"	-	M10090 (8)	M13090 (8)	M19090 (6)	M25090 (4)	M32090 (4)	M38090 (3)	M50090 (2)	-
92	3-5/8"	-	-	-	M13092 (8)	M19092 (6)	M25092 (4)	M32092 (4)	M38092 (3)	-	-
98	3-7/8"	3-1/2"	-	-	-	-	M25098 (4)	-	-	-	-
102	4"	-	-	-	-	M19102 (4)	-	-	-	-	-
105	4-1/8"	-	-	-	M13105 (6)	M19105 (4)	M25105 (4)	M32105 (2)	M38105 (2)	-	-
115	4-1/2"	4"	-	-	M13115 (6)	M19115 (4)	M25115 (4)	M32115 (2)	M38115 (2)	M50115 (2)	-
140	5-1/2"	5"	-	-	M13140 (4)	M19140 (4)	M25140 (2)	M32140 (2)	M38140 (2)	M50140 (2)	-
165	6-1/2"	6"	-	-	-	-	M25165 (2)	M32165 (2)	M38165 (2)	M50165 (1)	-

Note : For 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 19 mm	1" wall 25 mm	1-1/4" wall 32 mm	1-1/2" wall 38 mm	2" wall 50 mm
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) 37" x 48"	P121012 (12)	P341012 (8)	P101012 (6)	P1141012 (5)	P1121012 (4)	P201012 (3)
12-1/2"	(12" IPS) 44" x 48"	P121212 (12)	P341212 (8)	P101212 (6)	P1141212 (5)	P1121212 (4)	P201212 (3)
-	(14" IPS) 48" x 48"	P121400 (12)	P341400 (8)	P101400 (6)	P1141400 (5)	P1121400 (4)	P201400 (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 3 mm	1/4" wall 6 mm	3/8" wall 10 mm	1/2" wall 13 mm	5/8" wall 16 mm	3/4" wall 19 mm	1" wall 25 mm	1-1/8" wall 28 mm	1-1/4" wall 32 mm	1-1/2" wall 38 mm	2" wall 50 mm
36" x 48"	S1843 (48)	S1443 (24)	S3843 (16)	S1243 (12)	S5843 (10)	S3443 (8)	S1043 (6)	S11843 (6)	S11443 (5)	S11243 (4)	S2043 (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 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

Note : \*1/8" and 1/4" thickness sheet has only one side skin.



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