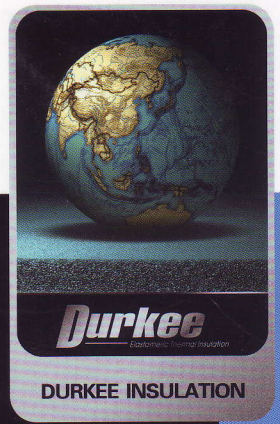
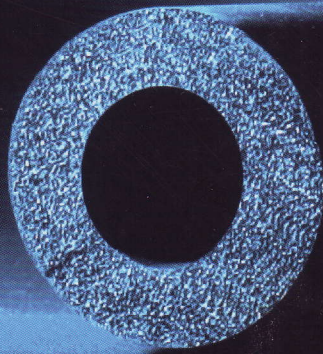


**Durkee**  
Elastomeric Thermal Insulation



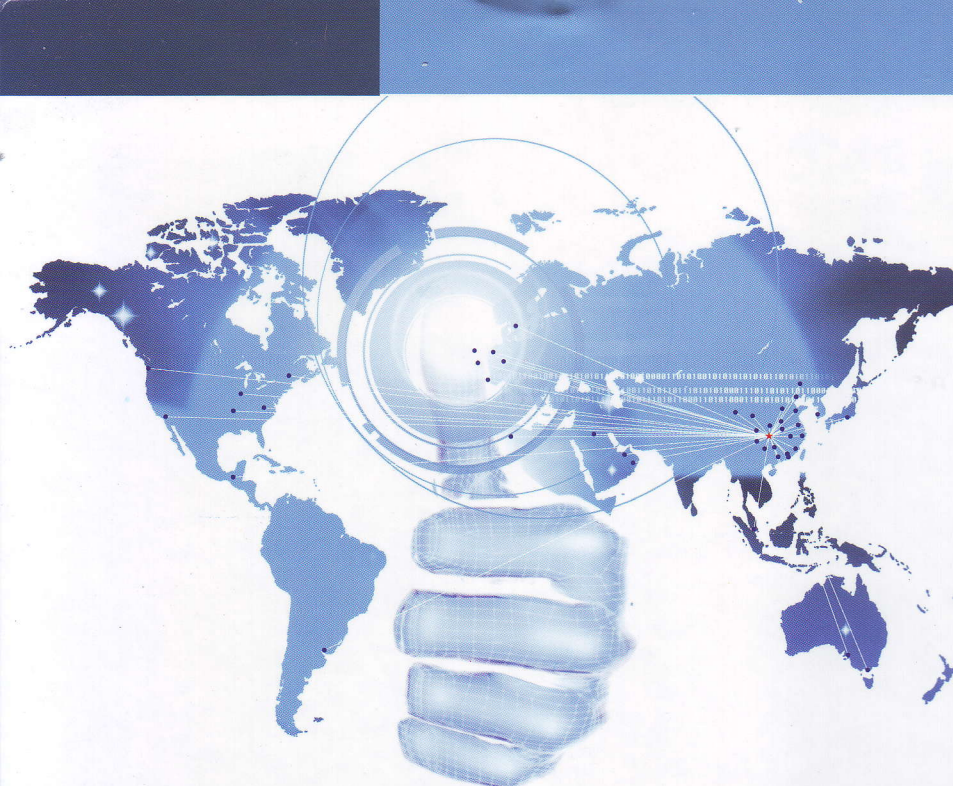
**Durkflex**®

HIGH QUALITY ELASTOMERIC  
THERMAL INSULATION



2010

HIGH QUALITY ELASTOMERIC THERMAL INSULATION



Setting up new branch in Bellingham, WA in 2008, marked another milestone of DURKEE International's rapid expansion in the North American market. In the last decade, DURKEE have become one of the fastest-growing companies in the global HVAC/R foam thermal insulation material market. With 3 subsidiaries, 4 R&D and manufacturing centers, over 10 professional sales centers in the America, Great China and Asia-Pacific regions, DURKEE serves wholesalers, contractors and end users. DURKEE has established herself with great reputation in the industry with three influential brands, DURKFLEX, DURKBLEX, and DURKYLEX.

DURKEE has been successfully helping our customers to create comfortable healthy living environment. We continue striving to remain your partner of choice in thermal insulation products.

## HIGH-QUALITY DURKFLEX comes from ACMF technology

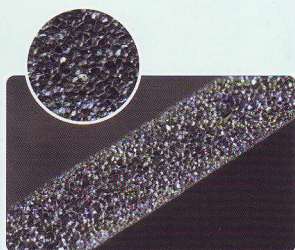
With closed-cell structure, Durkflex is a high quality flexible thermal insulation product, ideal for HVAC&R applications. Durkflex provides efficient method of preventing undesirable heat gain or loss in the whole air-conditioning system.

Produced with the unique "ACMF (Accuracy Control Microcellular Foam)" technology, the performance of the third generation Durkflex are greatly improved. More air can be sealed in the closed cells, which significantly improves thermal insulation performance. Meanwhile, ACMF technology also allows the raw materials mixed more evenly, which help to enhance the fire safety performance. More importantly, ACMF makes Durkflex more stable, more reliable in the field.

High quality Durkflex surpasses the Chinese, American, British, Korean, Australian and other countries' standards, and is widely used in commercial / industrial plumbing systems, air-conditioning, air duct systems, refrigeration machinery and equipment.

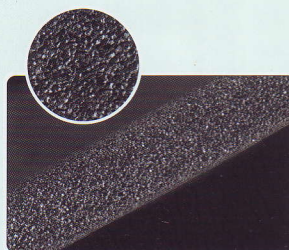
### Different Foaming Technology

High-quality Durkflex®



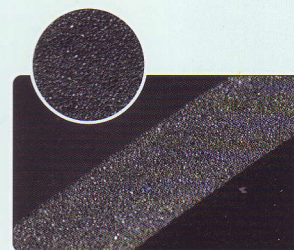
ACMF technology creates evenly formed structure, and high percentage of closed-cell rates. The density is optimized at 50 - 70 Kg/m<sup>3</sup>.

Some technology



Some technology creates not fully expanded cell structures, the cell inside is very small. The density is about 70-100 Kg/m<sup>3</sup>.

Some technology



Some technology foams over expanded foam, and the percentage of the closed cell is low. The density is about 40-50 Kg/m<sup>3</sup>.

# Durkflex® Main Application



## For refrigerant medium system

Durkflex is flexible, and easy installation with copper tube for the refrigerant medium system in A/C machine.



## For air duct system

Compling with several strict international fire safety standards, such as BS, ASTM, FM, KS, AS, GB, DIN, Durkflex is widely used in many prominent building projects throughout the world, especially for the metal air duct system.



## For chilled water system

With outstanding thermal insulating performance, Durkflex is one of the excellent insulation products of your choice. Top quality Durkflex enhances your A/C system with more energy-saving, environmentally friendly, and most importantly avoidance of condensation.



## For condensed water system

As an essential part in the central A/C system, condensed water pipe system can also benefit from Durkflex. High quality Durkflex can prevent condensation formation, and protect the building structure and ceiling tiles.

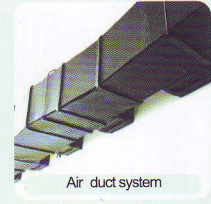


## For hot water piping system

Durkflex installed on hot water system, generates lower heat loss and energy saving. In addition, flexible Durkflex makes the installation on solar / hot water system more convenient and economical.



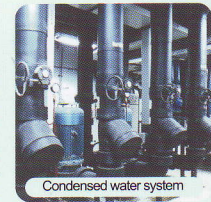
Refrigerant medium system



Air duct system



Chilled water system



Condensed water system



Hot water piping system

## Thickness Recommendation (For condensation control)

Pipe Size	Line Temp.		Line Temp.		Line Temp.		Line Temp.	
	10°C	50°F	2°C	35°F	-18°C	0°F	-29°C	-20°F
<b>Mild Conditions</b> Max 27°C (80°F) and 50% RH. Typical mild conditions are most air conditioned spaces and arid climates.								
3/8" thru 2-5/8" ID (10-65mm)	10mm (3/8")		10mm (3/8")		13mm (1/2")		19mm (3/4")	
Over 2-5/8" ID (>65mm)	13mm (1/2")		13mm (1/2")		13mm (1/2")		19mm (3/4")	
<b>Normal Conditions</b> Max 29°C (85°F) and 70% RH.								
3/8" thru 1-1/8" ID (10-28mm)	10mm (3/8")		13mm (1/2")		19mm (3/4")		25mm (1")	
1-1/8" thru 2-1/8" ID (28-54mm)	10mm (3/8")		13mm (1/2")		25mm (1")		25mm (1")	
2-1/8" thru 2-5/8" ID (54-65mm)	10mm (3/8")		13mm (1/2")		25mm (1")		32mm (1-1/4")	
Over 2-5/8" ID (>65mm)	13mm (1/2")		19mm (3/4")		25mm (1")		32mm (1-1/4")	
<b>Severe Conditions</b> Max 32°C (90°F) and 80% RH.								
3/8" thru 1-5/8" ID (10-40mm)	19mm (3/4")		25mm (1")		38mm (1-1/2")		38mm (1-1/2")	
1-5/8" thru 3-5/8" ID (40-90mm)	19mm (3/4")		25mm (1")		38mm (1-1/2")		44mm (1-3/4")	
Over 3-5/8" ID (>90mm)	19mm (3/4")		25mm (1")		38mm (1-1/2")		50mm (2")	

※ Under conditions of high humidity, additional thickness of insulation may be required.

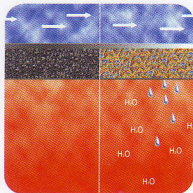
※ Thicknesses greater than 25mm (1") are sleeved or multiple layered applications.

## Durkflex<sup>®</sup> Features



### Steady Low Thermal Conductivity

Due to the unique closed cell structure, Durkflex has stable low Thermal Conductivity. The low K value makes Durkflex the ideal choice of insulation.



### High Moisture & Water Vapor Diffusion Resistance

The closed cell structures, plus the dense surface skin act as multilayer of moisture vapor barriers. The high  $\mu$  value helps Durkflex maintain low and stable thermal conductivity during its long service life without any need of extra vapor barrier in most applications.

QUALITY ASSURANCE

## HIGH-QUALITY DURKFLEX

Comes from strict 3 A QC system

Raw Material Stock Inspection ———— A  
 Manufacturing Process Control ———— A  
 Sales & Distribution Service Specification — A



FM (USA) Fire Safety Testing Certification



British Standard (BS) Fire Safety Testing Certification



British UKAS Quality Control System Certification



China Building Energy Saving Certification

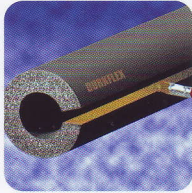


China NFTC Tracking Fire Safety Certification



### Fire Safety

Durkflex is specially designed to meet the GB 8624-1997, BS 476 Class 0 / Class 1, ASTM E84 25/50, FM testings. It does not melt nor drip flaming balls when burning, therefore does not cause fire transfer. Low smoke density makes it a safer option.



### Easy Installation

The smooth surface and flexibility of Durkflex enables quick and easy installation on any application, even the irregular pipelines and equipment. Durkflex also offers a very appealing and clean appearance.

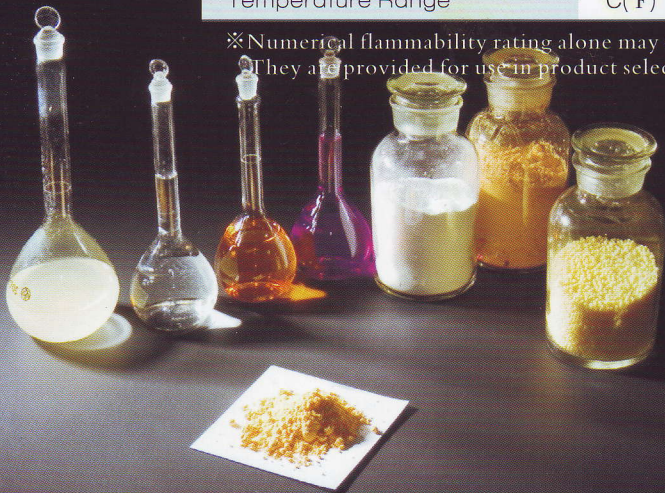


### Environmentally Friendly & Improved IAQ

Durkflex is CFC/HCFC free, non-porous, fiber free, dust free and resistant to mold and fungi growth. It greatly improves indoor air quality of air condition system without causing skin irritations and health hazard.

Physical Properties	Unit	Data	Test Methods
Thermal Conductivity			
-20°C	W/m*K	0.031 (0.225)	ASTM C518 / C177
0°C	(BTU*in/hr*ft²)	0.034 (0.240)	
40°C		0.038 (0.260)	
Water Vapor Permeability	Kg/S*m*Pa	$1.16 \times 10^{-19}$	ASTM E96
Moisture Resistance Factor		$\mu \geq 7300$	
Water Absorption (by volume)	%	$\leq 0.2$	
Fire safety and Smoke developed*		25/50 Class 1 / Class 0 FM Approved	ASTM E84 / ULC S102 BS 476 Part 7 / Part 6 FM UBC 26-3 / 4924/ 4880
Density	Kg/m <sup>3</sup> (lbs/ft <sup>3</sup> )	50-70 (3.125-4.375)	ASTM D1667
Mold Resistance		Good	UL181
Fungi Resistance		Good	ASTM G21
UV & Weather Resistance		Good	ASTM G23
Ozone Resistance		Good	
Dimensional Stability	%	0 to 7%	ASTM C534
Temperature Range	°C(°F)	-50 - 110(-58 - 230)	

\*Numerical flammability rating alone may not define product performance under actual fire condition. They are provided for use in product selection to meet specified limits.



**Durkflex**<sup>®</sup>  
Physical Parameter

# Durkflex<sup>®</sup> Tube

## Durkflex<sup>®</sup> Insulation Tube



Durkflex Insulation Tube (Length: 2 m/piece)

ID Size (COOPER TUBE)	IPS (STEEL PIPE)	ID DURKFLIX	3/8" (9mm) wall		1/2" (13mm) wall		3/4" (19mm) wall		1" (25mm) wall		1 1/4" (32mm) wall	
inch	inch	mm	Code No.	pcs/ctn	Code No.	pcs/ctn	Code No.	pcs/ctn	Code No.	pcs/ctn	Code No.	pcs/ctn
1/4"		6	09006	150	13006	90						
3/8"	1/8"	9	09010	130	13010	85	19010	45				
1/2"	1/4"	13	09013	110	13013	70	19013	40				
5/8"	3/8"	16	09016	90	13016	60	19016	35	25016	24		
3/4"		19	09019	80	13019	55	19019	32	25019	22		
7/8"	1/2"	22	09022	70	13022	50	19022	30	25022	20	32022	17
1"		25	09025	60	13025	45	19025	27	25025	18	32025	16
1 1/8"	3/4"	28	09028	55	13028	38	19028	24	25028	18	32028	15
1 1/4"		32	09032	45	13032	35	19032	23	25032	16	32032	14
1 3/8"	1"	35	09035	40	13035	33	19035	22	25035	15	32035	12
1 1/2"		38	09038	36	13038	31	19038	20	25038	14	32038	11
1 5/8"	1 1/4"	42	09042	35	13042	30	19042	18	25042	13	32042	11
1 7/8"	1 1/2"	48	09048	30	13048	24	19048	15	25048	12	32048	9
2 1/8"		54	09054	24	13054	20	19054	14	25054	11	32054	8
2 1/4"		57			13057	18	19057	13	25057	10	32057	8
2 3/8"	2"	60			13060	16	19060	12	25060	10	32060	7
2 5/8"		67			13067	14	19067	10	25067	9	32067	7
3"	2 1/2"	76					19076	8	25076	7	32076	6
3 1/2"	3"	89							25089	6	32089	5

- Note: 1, Other specification can be made according to customer's requirement.  
 2, Carton size for 2m tube is 81"(2.05m) x 17"(0.42m) x 13"(0.32m).  
 3, According to the BS 476 standard, Class 0 and Class 1 Durkflex can both be provided.

# Durkflex<sup>®</sup> Sheet

## Durkflex<sup>®</sup> Insulation Sheet

### Durkflex Standard Sheet Roll Insulation Size: width-1.2m

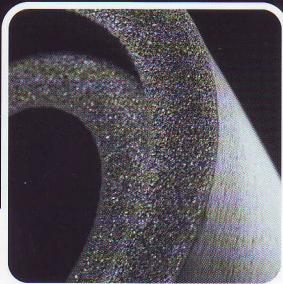
Thickness	1/4" (6mm)	3/8" (9mm)	1/2" (13mm)	3/4" (19mm)	1" (25mm)	1 1/4" (32mm)
Model	R06120	R09120	R13120	R19120	R25120	R32120
Length(m/ctn)	20	13	9	6	5	4

- Note: 1. 1/4" thick sheet has skin on one side.  
 2. The length of roll sheet can be produced based on availability and customer's requirement, the width can be 0.8m / 0.9m / 1.0m / 1.2m / 1.4m.  
 3. The carton box for the roll sheet (1.2m width) is 49" (1.25m) x 17" (0.42m) x 17" (0.42m).

### Durkflex Standard Flat Sheet Insulation Size: 4feet x3feet

Thickness	1/4" (6mm)	3/8" (9mm)	1/2" (13mm)	3/4" (19mm)	1" (25mm)	1 1/4" (32mm)
Model	S06	S09	S13	S19	S25	S32
Length(m/ctn)	20	14	10	7	5	4

- Note: 1. 1/4" thick sheet has skin on one side.  
 2. The carton box for the flat sheet is 50" (1.27m) x 39" (1m) x 6" (0.15m).

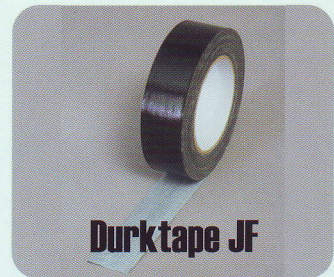


## Durkflex<sup>®</sup> Package & Accessories



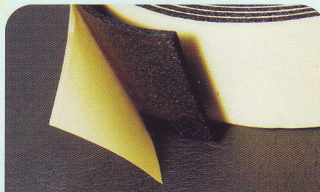
### Carton Box

Extra strength cartons can stack up to 10 layers. Provides protection and support for container shipment and warehouse storage.



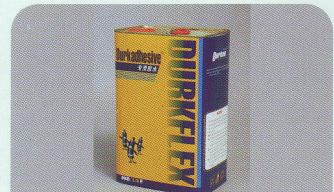
### Durktape JF

width	length	rolls / carton
35mm	30m	50



### Durktape AT

width	length	thickness	rolls / carton
50mm	30m	3mm	5



### Durkadhesive

volume / can	cans / carton
3.78L	4

## HIGH QUALITY ELASTOMERIC THERMAL INSULATION

### < DURKEE INSULATION >

▶ Durkee Insulation (America)  
Address: 1331 Meador Avenue, Suite105, Bellingham, Washington 98229  
Website: [www.durkeeintl.com](http://www.durkeeintl.com)  
Email: [insu-us@durkeeintl.com](mailto:insu-us@durkeeintl.com)

▶ Durkee Insulation (Canada)  
Address: 8141 Explorers Walk, Vancouver, BC V5S 4A9, Canada  
Tel: +1 - 604 - 324 - 8048  
Website: [www.durkeeintl.com](http://www.durkeeintl.com)  
E-mail:[insu-ca@durkeeintl.com](mailto:insu-ca@durkeeintl.com)

▶ Durkee Insulation (China)  
Address:No.1 Zisong Industry Zone, Hongshan District, Wuhan, China  
Tel: +86-27-8749 8556 +86-20-6285 6775  
Fax: +86-27-8780 1506 +86-20-6285 6776  
Website: [www.durkflex.com](http://www.durkflex.com)

▶ Manufacturers:  
Durkee (wuhan) Insulation Material Co.,Ltd  
Durkee (guangzhou) Insulation Material Co.,Ltd

