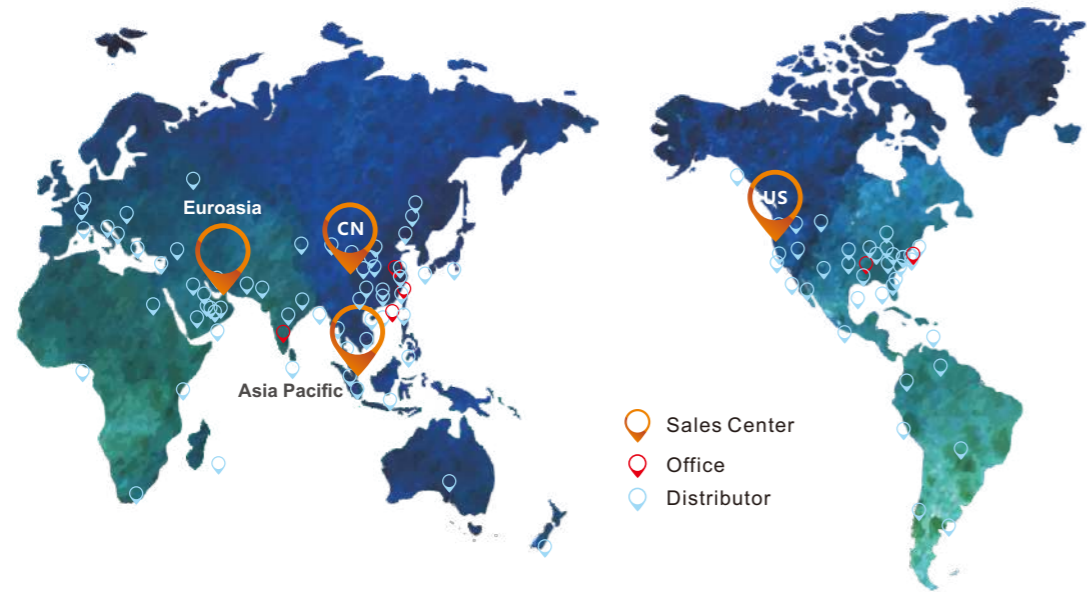


# DURKEE®

Deliver the Comfortable Environment for the Future



## ABOUT DURKEE

Durkee® is a multi-national high-tech enterprise with a focus on offering solutions of high quality elastomeric thermal insulation and customized non-rigid air ducting system in the HVAC industry over the past 30 years. As a global technical-based manufacturing and solution service-oriented company, Durkee has established 5 core business divisions with 2 modern manufacturing centers (in Wuhan, and Guangdong China), 4 sales and service centers (America, Asia-Pacific, EuroAsia and China) with branch offices and dozens of distributors around the world, serving thousands of projects worldwide.

## SALES CENTER

▶ **ASIA-PACIFIC REGIONAL OFFICES**  
Durkee Asia Pacific PTE Ltd  
Add: 6 RAFFLES QUAY#14-02,048580,  
Singapore  
Tel: +86-27-59237477  
Email: durkee@durkeeso.com

▶ **US REGIONAL OFFICES**  
Durkee America.INC.  
Add: PO BOX 1592 issaquah WA 98027 USA  
Tel: +1(206)639-2889  
Email: info@durkeintl.com  
durkee@durkeeso.com

▶ **EUROASIA REGIONAL OFFICES**  
Durkee Euroasia Trading DWC-LLC  
Add: DWC Business Center, PO Box 390667,  
Dubai U.A.E.  
Tel: 86-27-59237477  
Email: durkee@durkeeso.com

### Durkee Group Regional Compliance Notice:

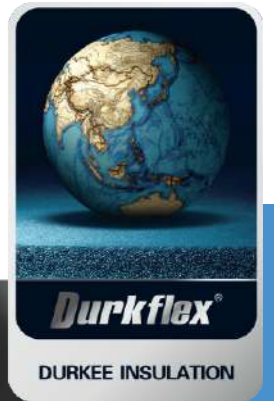
Given the diverse customer needs and product standards across various regions and countries worldwide, Durkee will offer region-specific products and supports that cater to the unique requirements of each regions. There are considerable risks involved in cross-border and regional sales and services, including challenges with product variety and meeting certification standards. Additionally, there is a risk that sales and after-sales services may not be adequately fulfilled or matched, potentially lacking the necessary guarantees.

Therefore, we advise customers in each region to reach out to the relevant sales management organization or service provider local to their project. By doing so, they can receive comprehensive support from pre-sales through to after-sales, thereby mitigating the risks associated with cross-regional transactions.

# INSULATION FOCUSED ON FIRE SAFETY

# Durkflex®

## Thermal Insulation Solution



# Durkflex®

## Thermal Insulation Material



2025 EN



**HIGH-QUALITY Durkflex®**  
comes from **ACMF technology**

With closed-cell structure, Durkflex® is a high quality flexible NBR based foam thermal insulation for HVAC&R applications.

The Whole series of Durkflex® products have fully applied with "ACMF(Accurate Control Microcellular Foam)" technology, which helps to improve several basic performance of foam insulation.

The optional Durkflex® series with self-adhesive or/and protective aluminum foil layers are available for reducing the installation time.

**Durkflex®**

**Perfect Application**

Depending on its outstanding fire safety performance, Durkflex® was widely used in the whole AC (air-conditioning) system. Involved areas covered Electronics / Communication / Semiconductor Manufacturing, Pharmacy/ Food Clean room, Precision instrument Manufacturing. Food Processing / Storage and Transportation, Aerospace Equipment Manufacturing, and mass of areas related the public safety and health. such as hospital, supermarket, gymnasium, school, railway station, subway, etc.



Electronics / Communication / Semiconductor Manufacturing



Pharmacy / Food / Clean Room



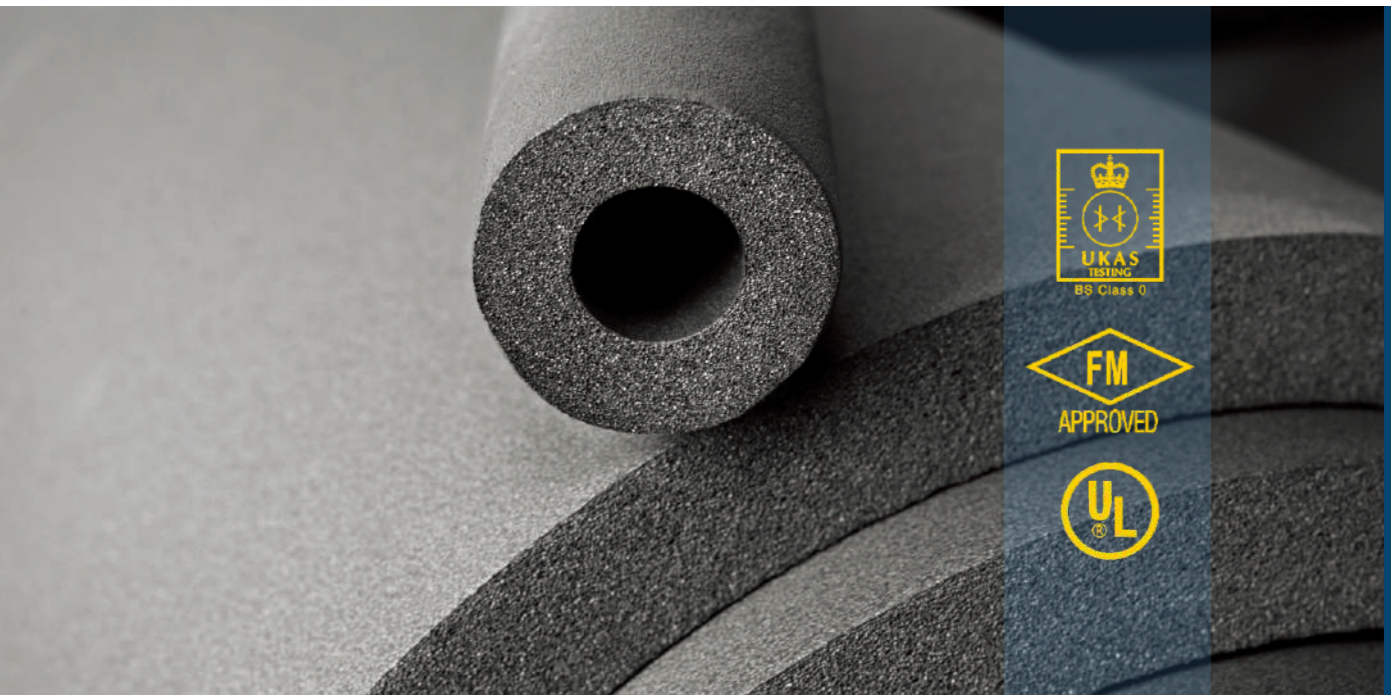
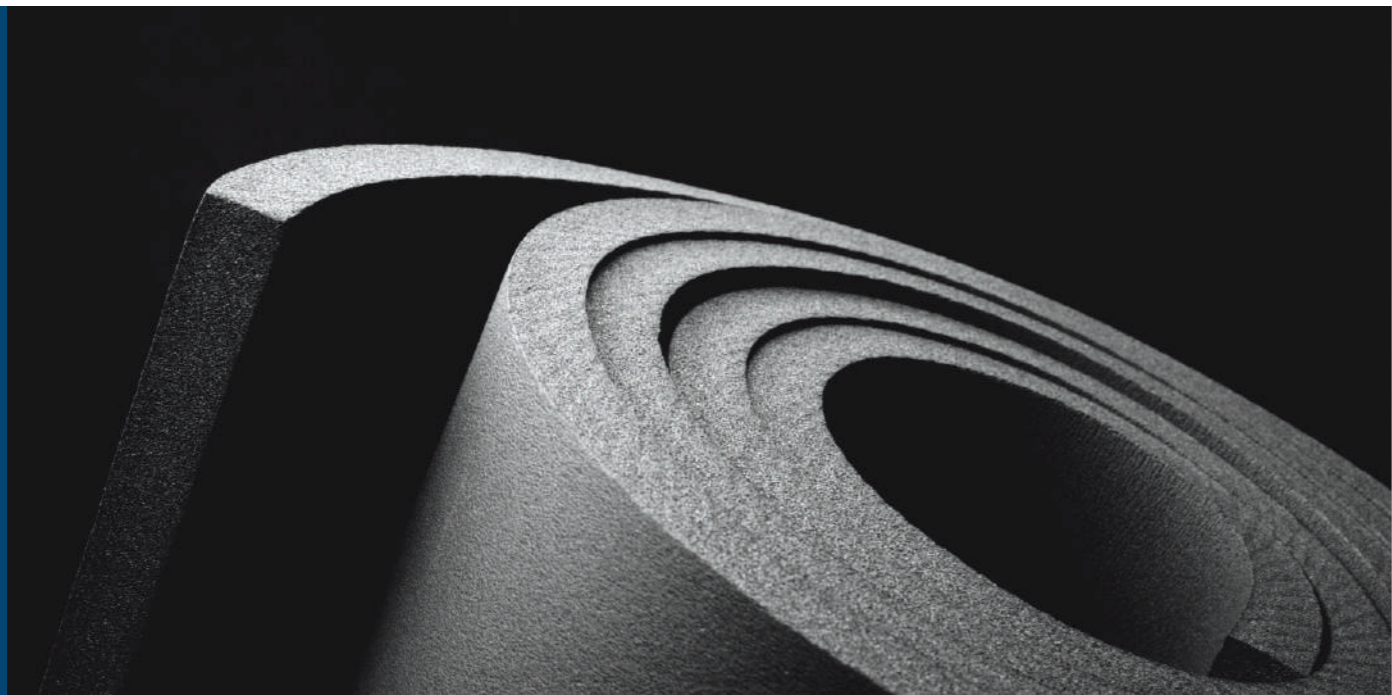
Precision Instrument Manufacturing



Food Processing / Storage and Transportation



Aerospace Equipment Manufacturing



- Better cell, Better Performance**  
Micro-Cellular and even cell, more air can be sealed, achieving lower thermal conductivity and better insulation performance.
- Stronger Structure, Lower Permeability**  
Stronger foam structure, hard to be damaged, the resistance of WVP (Water Vapor Permeability) is greatly improved.
- Optimized Process, More Security**  
Optimized process control system ensures better fire resistance, more security is guaranteed in case of fire.
- Stable Density, Easy Installation**  
Effectively control the stability of density, ensuring suitable tearing strength, easy to install in all applications.

Aimed to develop excellent fireproofing performance in higher fire safety insulation field, Durkflex® was fully applied with the third generation "ACMF" technology to improve basic performance of foam insulation, pursuing higher fire safety property at the same time.

All series of Durkflex® products have passed BS 476 part 6 and part 7 tests, achieving the highest "Class 0" certification. Durkflex® Wuhan and Guangzhou industrial parks have been approved FM "UBC Room Flame Test" and "FM approvals Pipe Chase Test". Moreover, U test of V-0 also been obtained.

In those tests, Durkflex® shows excellent fireproofing performance, reaching the worldwide highest fire prevention requirements, and greatly improving its fire safety property in real fire conditions, trustworthy definitely.

# PERFORMANCE STRENGTH

**Durkflex®**

## Features



### Outstanding fire safety performance

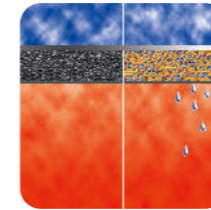
On behalf of higher fire proofing performance, BS 476 Class 0 Certificate , FM approval and UL Listing, owning the lower heat release and smoke-developed, bring more safety.



### Excellent thermal insulation property

Unique ACMF technology creates fine foamed structures and seals more air inside, greatly reducing probability to be damaged and improving further insulation performance.

# PERFORMANCE STRENGTH



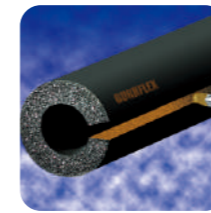
### Higher water vapor & moisture diffusion resistance

Higher closed-cell rate, fine foamed structure, keeping water vapor and moisture hard to permeate inside, contributes to maintain steady low thermal conductivity and prolong working life.



### Environment friendly

CFC/HCFC free, free of fiber, dust, heavy metal, Silicon, and resistant to mold and fungi growth. Ammonia and Sox content also free, meeting the acceptance criteria for a semiconductor clean room for a coverage above 50% of the net clean room area, with RoHS and REACH certifications.



### Easy installation

Soft and flexible, very suitable applied to engineering construction field. Working matched with Durkee® special accessories would be more convenient and efficient.



## HIGH-QUALITY Durkflex® Guaranteed by strict AAA QC system

- Incoming Raw Materials Inspection (IQC) — A
- Manufacturing Process Control (TQM) — A
- Sales & Distribution Service Specification (SQM) — A



**Durkflex®**

## Physical Parameter



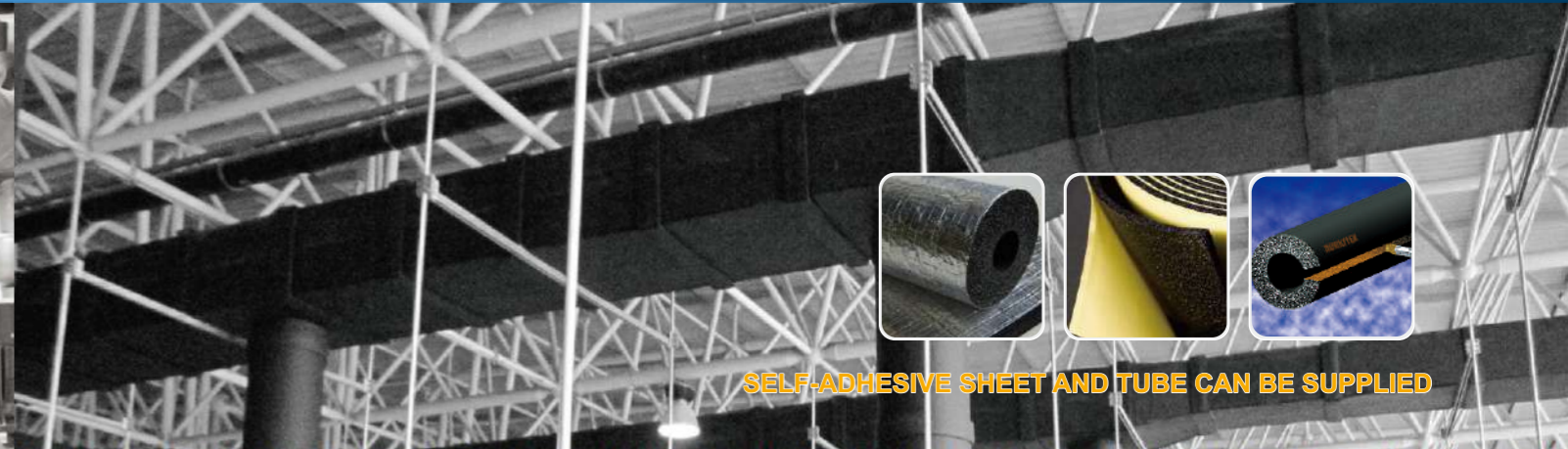
| Physical Propertise          | Unit                     | Data                        | Test Standards               |
|------------------------------|--------------------------|-----------------------------|------------------------------|
| Thermal Conductivity         | W/ (m·K)                 | 20°C ≤0.032                 | ASTM C177/C518-10            |
|                              |                          | 40°C ≤0.036                 |                              |
| Water Vapour Permeability    | g/s·m·Pa                 | 1.9x10 <sup>-11</sup>       | ASTM E96-10                  |
| Moisture Resistance Factor   |                          | μ≥10000                     |                              |
| Water Absorption (by volume) |                          | ≤0.08                       | ASTM C209-15                 |
|                              |                          | Class 0 & 1                 | BS 476 Part 6&7              |
| Fire Safety                  |                          | FM                          | FM Approvals                 |
|                              |                          | V-0,5-VA                    | UL 94                        |
|                              |                          | (B,S1,d0)                   | EN 13501-1<br>EN ISO 11925-2 |
| Microbial Resistance         |                          | Good                        | ASTM E2180-07                |
| Fungi Resistance             |                          | Grade 0                     | ASTM G21-09                  |
| Outgassing of VOC            | mg/m <sup>3</sup> (168h) | Tvoc: 0.10mg/m <sup>3</sup> | ASTM D6196                   |
|                              |                          | Formaldehyde: <0.001ppm     |                              |
|                              |                          | Total Aldehydes: <0.001ppm  |                              |
| Ammonia and Sox              | μg/cm <sup>2</sup>       | <0.02                       |                              |
| Ozone Resistance             |                          | Good                        |                              |
| UV & Weather Resistance      |                          | Good                        | ASTM G23                     |
| RoHS                         |                          | Pass                        | RoHS Directive               |
| REACH                        |                          | Pass                        | REACH                        |
| Dimensional Stability        | %                        | ≤7 (-50°C & 105±3°C)        | ASTM C534                    |
| Suitable Temperature         |                          | -50°C — 110°C               | ASTM C534                    |

**Note:** The testing data in the table above are the results of single test and are for reference only. Please confirm with us for more details in the actual use.

# PRODUCT SELECTION



# PRODUCT SELECTION



SELF-ADHESIVE SHEET AND TUBE CAN BE SUPPLIED

## Durkflex®

### Insulation Sheet

#### Durkflex® Roll Sheet

| Thickness | mm           | 06        | 09        | 13        | 19        | 25        | 32        | 40        | 50        |
|-----------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Model     | (Width1.5m)  | FG 06150R | FG 09150R | FG 3150R  | FG 19150R | FG 25150R | FG 32150R | FG 40150R | FG 50150R |
|           | (Width1.42m) | FG 06142R | FG 09142R | FG 13142R | FG 19142R | FG 25142R | FG 32142R | FG 40142R | FG 50142R |
| Length    | M/ROII       | 30        | 20        | 15        | 10        | 8         | 7         | 5         | 4         |

#### Remarks:

- 1) Thickness greater than 50mm (2") are double or multiple-layer applications.
- 2) The width of sheet can be updated according to the market demand.
- 3) Please contact us for further communication about the custom size requirements.

## Durkflex®

### Insulation Tube

| ID               | 3/8"(09mm)wall | 1/2"(13mm)wall | 3/4"(19mm)wall | 1"(25mm)wall | 1-1/4"(32mm)wall | 1-1/2"(40mm)wall | 2"(50mm)wall |
|------------------|----------------|----------------|----------------|--------------|------------------|------------------|--------------|
| Copper Tube Inch | Durkflex mm    | Model          | pcs/ctn        | Model        | pcs/ctn          | Model            | pcs/ctn      |
| 1/4              | 6              | FG09006M       | 150            | FG13006M     | 90               | FG19006M         | 50           |
| 3/8              | 10             | FG09010M       | 130            | FG13010M     | 85               | FG19010M         | 45           |
| 1/2              | 13             | FG09013M       | 110            | FG13013M     | 70               | FG19013M         | 40           |
| 5/8              | 16             | FG09016M       | 90             | FG13016M     | 60               | FG19016M         | 35           |
| 3/4              | 19             | FG09019M       | 80             | FG13019M     | 55               | FG19019M         | 32           |
| 7/8              | 22             | FG09022M       | 70             | FG13022M     | 50               | FG19022M         | 30           |
| 1                | 25             | FG09025M       | 60             | FG13025M     | 45               | FG19025M         | 27           |
| 1-1/8            | 28             | FG09028M       | 55             | FG13028M     | 38               | FG19028M         | 24           |
| 1-1/4            | 32             | FG09032M       | 45             | FG13032M     | 35               | FG19032M         | 23           |
| 1-3/8            | 35             | FG09035M       | 40             | FG13035M     | 33               | FG19035M         | 22           |
| 1-5/8            | 42             | FG09042M       | 35             | FG13042M     | 30               | FG19042M         | 18           |
| 1-7/8            | 48             | FG09048M       | 30             | FG13048M     | 24               | FG19048M         | 17           |
| 2                | 54             | FG09054M       | 30             | FG13054M     | 20               | FG19054M         | 14           |
| 2-3/8            | 60             | FG09060M       | 28             | FG13060M     | 18               | FG19060M         | 12           |
| 2-5/8            | 76             | FG09076M       | 25             | FG13076M     | 15               | FG19076M         | 10           |
| 3                | 89             |                |                | FG13089M     | 14               | FG19089M         | 8            |
| 4-1/2            | 115            |                |                |              |                  | FG19115M         | 7            |
| 5-1/2            | 140            |                |                |              |                  |                  |              |
| 6                | 165            |                |                |              |                  |                  |              |

- Remarks:
- 1) The length of insulation tube is 2M/piece.
  - 2) Carton size for 2M tube is 81" (2.05M) x 17"(0.42M) x 13"(0.32M).
  - 3) Thickness greater than 50mm(2") are double or multiple-layer applications.
  - 4) The above models are for your reference only.For the uncommon models with\*,please confirm with us before ordering.
  - 5) As for the protective aluminum foil layers tube, pls confirm the tube items with factory order staff before placing the order.

## Durkflex®

### Package & Accessories

Durkee® accessories series are the products that aimed to match with Durkflex® insulation materials to guarantee perfect installation effects together in various applications.



#### Carton Box

Extra strong cartons can stack up to 10 layers, providing protection and support for container shipment, 7 layers for warehouse storage.

#### Durkflex Aluminum Foil Thermal Insulation

- A long lifespan
- Eco-friendly material
- Better moisture resistance
- Different thicknesses of the aluminum layers



#### Durktape

| Length | Width | Thickness | QTY         |
|--------|-------|-----------|-------------|
| 30m    | 50mm  | 3mm       | 12rolls/ctn |

#### Durkadhesive

| Length | Width | Height | Volume |
|--------|-------|--------|--------|
| 160mm  | 100mm | 245mm  | 3.78L  |

