



## DFLEX RANGE



# YOUR COMPLETE INSULATION SOLUTION

Drillfast Dflex Range is a fire retardant, multi-purpose flexible elastomeric thermal insulation with a built in vapour barrier and a closed cell structure. This makes the Dflex Range highly resistant to water vapour transmission and enables the product to maintain a high level of energy conservation efficiency.

Drillfast Dflex Range is dust, fibre free and is HCFC-CFC free with an Ozone Depletion Potential (ODP) of zero. The impressive technical properties and supporting certifications and accreditations position the Dflex Range as an ideal solution for any commercial, industrial and domestic applications.

## KEY FEATURES

- ISO 9001:2000 Registered with over a thousand additional domestic and international certificates
- Tube and sheet available with self adhesive and aluminium foil
- Light weight and flexible for easy and speedy installation with low maintenance resulting in time and cost savings
- CFC and HCFC free with ozone depletion potential of zero
- Non-corrosive, smoke and fire retardant material
- Low thermal conductivity and high  $\mu$  factor for effective control of condensation and insulating against heat loss and heat gain
- FM Approved



## TECHNICAL PROPERTIES

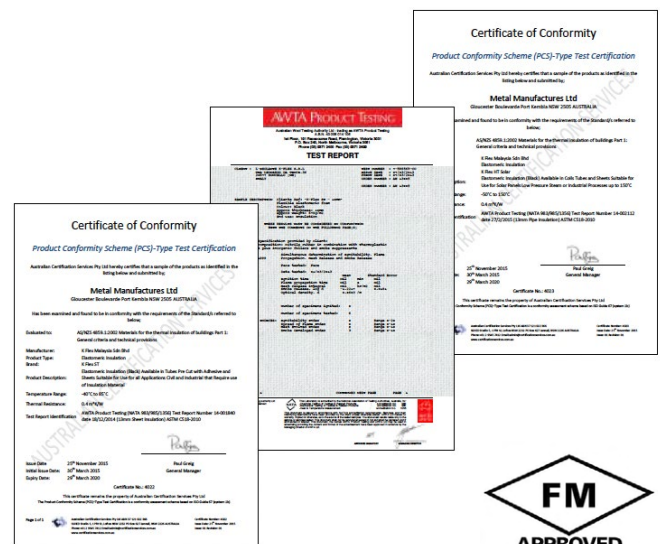
Drillfast Dflex Range is a closed cell extruded nitrile based rubber that exhibits better thermal conductivity as the air inside the closed cells has lower mobility than that produced in open Cells.

Vapour Diffusion into the insulation is much lower allowing the thermal conductivity to be guaranteed longer. Drillfast Dflex Range is FM Approved assuring customers that our product has been objectively tested and conforms to the highest national and international standards.

|  |  |  |
|--|--|--|
| Construction                             | Closed Cell  | 75mm x 10mts   |
| Density                                  | 45-70kg/m3   | Sisalation - multi layered Foil/Kraft/Scrim          |
| Temperature Range                        | -200°C to +116°C   | Silver   |
| Thermal Conductivity                     | $\lambda=0.034W/(m.k)$ @ +20°C<br>$\lambda=0.032W/(m.k)$ @ 0°C<br>$\lambda=0.028W/(m.k)$ @ +20°C | AS4859.1<br>EN12667<br>DIN 52612                     |
| Water Vapour Diffusion Resistance Factor | $\mu \geq 10,000$  | EN12086<br>DIN52612                                  |
| Fire Performance                         | Class 1  | AS1530.3   |
| Reaction to Fire                         | Self Extinguishing   |  |
| Environmental                            | Zero Ozone Depleting Potential (ODP), Low VOC  |  |
| Fungal / Mold Resistance                 | Resistant  | ASTM G21<br>Anti Microbial<br>Greenguard<br>Approved |

## CERTIFICATION AND TESTING

Drillfast Dflex Range has been independently tested by NATA accredited laboratories and also carries a number of international globally recognised certifications.



# A CLOSED CELL INSULATION WITH MANY ADVANTAGES OVER THE TRADITIONAL OPEN CELL AND PRODUCTS MADE OF WOOL OR FIBREGLASS

- Closed Cell Insulation has a better thermal conductivity, because the air inside of the closed cells has a lower mobility than that produced in open cells.
- Vapour diffusion into the Dflex Range is much lower, thus the thermal conductivity will be guaranteed for longer.
- The closed cell promotes a natural inhibition of bacterial growth as bacteria cannot spread within the structure.



## **VERY LOW THERMAL CONDUCTIVITY ( $\lambda$ FACTOR)**

Thermal Conductivity is a measurement of the ability of a material to transmit heat. The Dflex Range ST thermal conductivity is  $\lambda = 0.032\text{W}/(\text{m.K}) @ 0^\circ\text{C}$ . The thermal coefficient is the most important factor in the calculation as it focuses on energy saving. The lower the figure the better the thermal insulation.

## **HIGH WATER VAPOUR DIFFUSION RESISTANCE ( $\mu$ factor)**

Drillfast Dflex Range ST closed cell elastomeric insulation has a high water vapour diffusion resistance factor  $\mu$ , to minimise water vapour penetration, ensuring excellent long term performance. The higher the resistance to the penetrations of water vapour ( $\mu$ ), the greater the consistency of performance. This is significant when insulating cold items where insulation thicknesses are chosen to achieve a surface temperature above the ambient dewpoint.

## **LOW FLAME SPREAD**

When Fire Tested, the Dflex Range does not generate flaming droplets and has a low fire propagation index. It is guaranteed to self extinguish in case of a fire.

## NON-TOXIC PRODUCTS

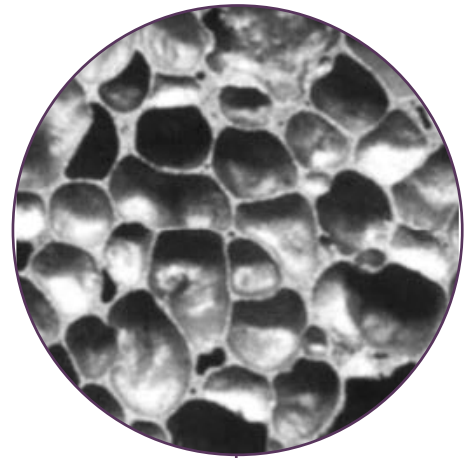
Many insulation materials are porous or fibrous. In these types of materials the presence of moisture and organic matter allow the growth of bacteria, mould, and fungi. Drillfast Dflex Range is resistant to this and therefore helps contribute to the quality of the air that we breathe. We do our best to ensure that our products do not emit VOC's (volatile organic compounds) and have Zero ODP (Ozone Depletion Potential). Elastomeric Insulation such as the Dflex Range is not made of fibrous material and does not release harmful particles into the air. Therefore our product is ideal for any application in public places such as schools and hospitals.

## FLEXIBILITY AND EASE OF USE

The ease of installation of Drillfast Dflex Range is one key feature that sets our materials apart from other products on the market. Due to its flexibility and elasticity, the Dflex Range is ideal for a variety of applications. Professionals will appreciate its extreme cleanliness as it does not leave traces and residues behind during installation that can help achieve savings in installation time.

## TEMPERATURE RANGE

Drillfast Dflex Range is suitable for applications ranging from -200°C to +116°C. Our strict quality and safety expectations ensure that our material is compatible with applications with the strictest of specifications.



**CLOSED CELL  
INSULATION**





**DRILLFAST DFLEX RANGE ST  
FIRE RETARDANT - 9MM WT**

| Code          | Insulation ID |       | Wall Thickness | Carton Quantity |
|---------------|---------------|-------|----------------|-----------------|
|               | mm            | inch  |                |                 |
| 50DFLEXK09006 | 6             | 1/4   | 9mm            | 144             |
| 50DFLEXK09015 | 15            | 5/8   | 9mm            | 94              |
| 50DFLEXK09010 | 10            | 3/8   | 9mm            | 120             |
| 50DFLEXK09013 | 13            | 1/2   | 9mm            | 90              |
| 50DFLEXK09015 | 15            | 5/8   | 9mm            | 84              |
| 50DFLEXK09020 | 20            | 3/4   | 9mm            | 68              |
| 50DFLEXK09022 | 22            | 7/8   | 9mm            | 64              |
| 50DFLEXK09025 | 25            | 1     | 9mm            | 54              |
| 50DFLEXK09028 | 28            | 1 1/8 | 9mm            | 49              |
| 50DFLEXK09032 | 32            | 1 1/4 | 9mm            | 38              |
| 50DFLEXK09035 | 35            | 1 3/8 | 9mm            | 38              |
| 50DFLEXK09040 | 40            | 1 1/2 | 9mm            | 30              |
| 50DFLEXK09042 | 42            | 1 5/8 | 9mm            | 30              |
| 50DFLEXK09050 | 50            | 2     | 9mm            | 24              |
| 50DFLEXK09054 | 54            | 2 1/8 | 9mm            | 23              |
| 50DFLEXK09060 | 60            | 2 3/8 | 9mm            | 23              |
| 50DFLEXK09067 | 67            | 2 5/8 | 9mm            | 20              |
| 50DFLEXK13015 | 15            | 5/8   | 13mm           | 56              |
| 50DFLEXK13028 | 28            | 1 1/8 | 13mm           | 36              |
| 50DFLEXK13032 | 32            | 1 1/4 | 13mm           | 29              |
| 50DFLEXK19020 | 20            | 3/4   | 19mm           | 30              |
| 50DFLEXK19050 | 50            | 2     | 19mm           | 12              |
| 50DFLEXK19060 | 60            | 2 3/8 | 19mm           | 11              |
| 50DFLEXK32013 | 13            | 1/2   | 32mm           | 18              |



**ACCESSORIES**  
**ADHESIVE**

| Code         | Wall Thickness            | Carton Quantity |
|--------------|---------------------------|-----------------|
| 20INDAFLEX   | Insulation Adhesive 500ml | 8               |
| 20INDAFLEX1L | Insulation Adhesive 1L    | 6               |





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