

Product name	Firoblok fire protective sleeves
Product Code	IWS (size)
Revision date	2018-12-04
Revision number	-
Document ref	TDS FIROBLOK

## PRODUCT OVERVIEW

Firoblok fire protective sleeves are designed to maintain the rating of a fire rated wall, floor or ceiling where pipes, conduits or services are passing through. Firoblok allows the expansion and contraction of pipes, and protects from corrosion where copper pipes are in contact with concrete. Tested on concrete, blockwork and flexible walls. Standard dimensions from 18 mm – 215 mm diameter, other sizes made to measure.

### Firoblok has the following advantages:

- Tested and classified to E120, EI90
- Easy to install in new builds, or retrofitted
- Stanley knife only tool needed
- Allows for thermal movements in the pipe
- Can be made up to 500 mm long, to protect both sides of a wall

## TEST DATA

Firoblok fire protective sleeves are classified to E120 and EI90, according to EU Standard EN 13501-2:2007+A1:2009. It is tested in accordance with EN 1366-3:2009. The Firoblok fire protective sleeve was installed perpendicular to the wall.

The test results are valid for all flexible wall constructions, and for blockwork or masonry walls at least 100 mm thick.

## NOTES

**Type of product:** Foil covered intumescent sleeve, non fibrous

**Size:** 15 standard dimensions from 18 mm – 215 mm diameter, other sizes made to measure

**Expansion data:** Firoblok will expand to 25 times its own thickness. Expansion starts at approximately 130°C.

**Life span:** No deterioration if used as instructed. The Firoblok will provide protection for the lifetime of the building.

Firoblok fire protective sleeves are installed with a stanley knife and the supplied tape. The hole through the wall will need to allow for the service plus the outer diameter of the sleeve. Cut offs can be taped together and re-used, leaving no waste.

#### PREPARATION

Firoblok fire protective sleeves are designed to maintain the rating of a fire rated wall, floor or ceiling where pipes, conduits or services are passing through. Test valid for concrete, blockwork and flexible walls. Cut a hole through the wall large enough to allow for the pipe / cables / services, plus the Firoblok sleeve.

#### INSTALLATION INSTRUCTIONS



1 Cut to depth of wall



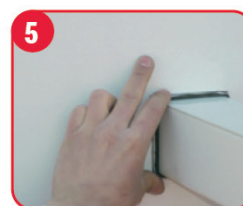
2 Cut along line, trim to fit



3 Wrap around service to a tight fit



4 Fix self adhesive flap



5 Push in level with wall

<b>Application tools:</b>	Suitable tools to create the hole, Stanley knife to cut open the Firoblok sleeve
<b>Sizes:</b>	15 standard dimensions from 18 mm – 215 mm diameter, other sizes made to measure
<b>life span:</b>	The Firoblok will provide protection for the lifetime of the building

#### CLEAN UP

Sweep up spills or dust with dustpan and brush. Cut offs can be taped together and reused.

#### AFTER CARE

Firoblok fire protective sleeve can be removed and replaced if new pipes or cables are added, or if service demands. Please make sure to have a Firoblok for the correct size of the opening.

conforming to EC no. 1272/200	
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## 01 - IDENTIFICATION OF ARTICLE

### 1.1. Product identifier

**Trade name :** Fireblok fire protective sleeve

**Version number:** -

### 1.2. Relevant identified uses of the mixture and uses advised against

#### 1.2.1. Relevant identified uses

**Uses of the product:** Intumescent sleeve to maintain fire rating of a wall

**1.2.2. Uses advised against:** Not relevant

### 1.3 Supplier of data sheet:

Scandinavian Trading Ltd  
Unit 2, Glen Court, Canada Road, Byfleet, KT14 7JL, UK  
Tel: +44 (0)1932 354293  
www.scandinaviantrading.co.uk

**Manufacturer:** Intumescent Systems Ltd, UK

**1.4 Emergency telephone number:** Follow local rules. Emergency number in Europe: 112

A foiled intumescent sleeve to go over plastic, UPVC, steel & copper pipes, plastic ventilation trunking. Fireblok sleeves are designed to protect cables and metal/plastic pipes and ventilation trunking passing through fire-rated ceiling, floors or walls made from block, brick or concrete and hollow plasterboard floors and walls. They are flexible, allowing contraction and expansion of water pipes and give protection from corrosion caused by close contact with cement, cement blocks, plaster and other corrosive building materials.

This product comprises of the following materials and therefore is supported by Health & Safety Data Sheets:

- (Appendix 1) Multigraf intumescent material
- (Appendix 2) Foiled Glass Cloth

The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.

conforming to EC no. 1272/200

Revision date 2018-12-03

Revision number -

## 01 - IDENTIFICATION OF SUBSTANCE

### 1.1. Product identifier

**Trade name :** Multigraf Intumescent material (as part of Fireblok fire protective sleeve)

**Version number:** -

### 1.2. Relevant identified uses of the mixture and uses advised against

#### 1.2.1. Relevant identified uses

**Uses of the product:** professional use only

**1.2.2. Uses advised against:** Not relevant

### 1.3 Supplier of data sheet:

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Unit 2, Glen Court, Canada Road, Byfleet, KT14 7JL, UK  
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## 02 - HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:** -

**Hazard statements**

1. None for the non-woven products (manufactured articles) covered by this MSDS.
2. None for dust and fibres released during handling.

**2.2. Label elements:** -

**2.3. Other hazards:**

Not hazardous if used as intended. Cutting through the material and surface scuffing may release small amounts of airborne fibre, clay and carbon dust which are mechanically irritant to skin, eyes and upper respiratory system. Based on animal studies, excessive exposure to man made mineral fibre dust may cause lung damage (fibrosis) and tumours. As with any dust, pre-existing upper respiratory symptoms and lung diseases may be aggravated.

## 03 - COMPOSITION/ INFORMATION ON INGREDIENTS

**3.1/2. Substance/Mixture:**

Chemical name	% by weight
Mineral wool fibre	20-70
Exfoliating Graphite	20-60
Organic binder (including adhesive coating)	5-30

**3.3. Additional information:** -

#### 04 - FIRST AID MEASURES

##### 4.1. Description of first aid measures.

**inhalation :** Remove to fresh air, drink water and clear throat and blow nose to evacuate fibre/dust. Seek medical attention.

**skin contact:** Rinse affected areas with water and wash gently with soap. Do not use detergent.

**eye contact:** Flush eyes with large quantities of water. Have eye bath readily available in areas where eye contact may occur. Seek medical attention if irritation continues.

**ingestion:** Drink plenty of water. Seek medical advice.

##### 4.2. Most important symptoms and effects, both acute and delayed.

-

##### 4.3. Indication of any immediate medical attention and special treatment needed.

-

#### 05 - FIREFIGHTING MEASURES

##### 5.1 Extinguishing media.

Use extinguishing agent suitable for type of surrounding combustible materials. Do not inhale products of combustion.

**Unsuitable extinguishing media:** -

##### 5.2 Special hazards arising from the substance or mixture:

-

##### 5.3 Advice for firefighters:

-

#### 06 - ACCIDENTAL RELEASE MEASURES

##### 6.1. Personal precautions, protective equipment and emergency procedures:

Store product in original wrapping until required for use.

##### 6.2. Environmental precautions:

Do not allow dust to be wind blown. Do not use compressed air to blow dust or fibres. Unwanted product should be collected & stored in sealed bags.

##### 6.3. Methods and material for containment and cleaning up:

Dust/fibre should be removed using a suitable vacuum cleaner with HEPA exhaust air filtration & disposal collection bags; used bags to be sealed before disposal. If sweeping is required the area should be damped down with water before brushing.

#### 07 - PRECAUTIONS FOR SAFE HANDLING

##### 7.1 Precautions for safe handling:

Keep dust generation to a minimum.

##### 7.2. Conditions for safe storage, including any incompatibilities:

Store dry and cool. Keep in original wrapping until required for use.

##### 7.3. Specific end uses:

Product is intended for use as described in section 1.2

## 08 - EXPOSURE CONTROLS /PERSONAL PROTECTION

**8.1. Control parameters** Not applicable

**Occupational exposure limits TWA (Time Weighted Average):** MAN MADE MINERAL FIBRE: \*ME 2.0 fibres/ml & 5 mg/m; (8 hr TWA)  
FINE CARBON DUST: \*OES 3.5 mg/m; (8 hr TWA) and 7 mg/m; (STEL)  
\*(UK Health & Safety Executive - OEL EH40/98)

**DNEL / PNEC:** -

**8.2 Exposure controls:**

**Respiration protection:** Wear disposable dust respirator (e.g. 3M 8810 or equivalent).

**Hand protection:** Use of gloves is recommended.

**Skin protection:** Wear overalls that are loose fitting at the neck and wrists.

**Eye Protection:** Wear goggles or safety glasses with side shields. Do not wear contact lenses.

## 09 - PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

<b>Appearance:</b>	Flexible fibrous mat	<b>Density:</b>	200-500 kg/m <sup>3</sup>
<b>Colour:</b>	Grey with black speckle	<b>Melting point:</b>	
<b>Odour:</b>	-	<b>Evaporation rate:</b>	-
<b>pH (as supplied):</b>	-	<b>Auto-ignition temperature:</b>	-
<b>Viscosity:</b>	-	<b>Explosive limits</b>	-
<b>Flash point:</b>		<b>Solubility in water:</b>	-
<b>Boiling point:</b>		<b>Partition coefficient: (N-octanol/water)</b>	-
<b>Vapour pressure:</b>			

**9.2 Other information:**

Rapid volumetric expansion occurs when product is heated above 100°C. Material will sustain combustion for a short period until organic binder (and SAB coating) is burnt out or resulting expansion self-extinguishes.

## 10 - STABILITY AND REACTIVITY

**10.1. Reactivity:**

-

**10.2 Chemical stability:**

Stable.

**10.3. Possibility of hazardous reactions:**

-

**10.4 Conditions to avoid:**

-

**10.5 Incompatible materials:**

Avoid strong oxidizing agents, strong alkalis and hydrofluoric acid.

**10.6 Hazardous decomposition products:**

Combustion products are H<sub>2</sub>O, CO, CO<sub>2</sub> and hydrocarbons.

## 11 - TOXICOLOGICAL INFORMATION

- 11.1. Information on toxicological effects** The International Agency for Research on Cancer (IARC) has classified Mineral Wool Fibre as possibly carcinogenic (Group 2B).

## 12 - ECOLOGICAL INFORMATION

- 12.1 Toxicity** -
- 12.2 Persistence and degradability:** This product will remain stable over time with the inorganic components remaining inert.
- 12.3 Bioaccumulative potential:** -
- 12.4 Mobility in soil:** -
- 12.5 Result of PBT and vPvB assesment:** -
- 12.6 Other adverse effects:** -

## 13 - DISPOSAL CONSIDERATIONS

- 13.1 Waste tratment methods:** Waste is not classified as a hazardous waste and may be disposed of at a normal licensed industrial waste site. Local regulations should be considered. Waste should be bagged or suitably contained for disposal to prevent any dusts being wind blown during disposal.

**Contaminated packing:** -

## 14 - TRANSPORT INFORMATION

- 14.1 UN number** Not regulated for Transport.
- 14.2 UN proper shipping name** -
- 14.3 Transport hazard class(es)** Not applicable. Non hazardous.
- 14.4 Packing group** Not applicable. Non hazardous.
- 14.5 Environmental hazards - MP:** Not applicable. Non hazardous.
- 14.6 Special precautions for user:** Not applicable. Non hazardous.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** -

## 15 - REGULATORY INFORMATION

- 15.1. Safety, health and environmental regulations/ legislation specific for the substance of mixture** -
- 15.2 Chemical Safety Assessment:** -

## 16 - OTHER INFORMATION

<b>Recommended use:</b>	Not applicable, part of article.
<b>Further information:</b>	Consult technical data sheet. Further information regarding working with man made mineral fibres and measurement techniques may be obtained by referring to Guidance Note EH46 1990 and NDHS59 1998 published by the UK, Health & Safety Executive.
<b>Additional information:</b>	The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.



conforming to EC no. 1272/200	
Revision date	2018-12-04
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## 01 - IDENTIFICATION OF SUBSTANCE

### 1.1. Product identifier

**Trade name :** Foil Coated Glass Cloth (as part of Fireblok fire protective sleeve)

**Version number:** -

### 1.2. Relevant identified uses of the mixture and uses advised against

#### 1.2.1. Relevant identified uses

**Uses of the product:** professional use only

**1.2.2. Uses advised against:** Not relevant

### 1.3 Supplier of data sheet:

Scandinavian Trading Ltd  
Unit 2, Glen Court, Canada Road, Byfleet, KT14 7JL, UK  
Tel: +44 (0)1932 354293  
www.scandinaviantrading.co.uk

**Manufacturer:** Intumescent Systems Ltd, UK

**1.4 Emergency telephone number:** Follow local rules. Emergency number in Europe: 112

## 02 - HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:** -

**Hazard statements** -

**2.2. Label elements:** -

**2.3. Other hazards:** In a sustained fire situation the coating will burn to give smoke containing carbon monoxide, carbon dioxide, hydrocarbons, nitrogen based and halogen based gases.  
There are no major health hazards associated with the fabric; however exposure to glass fibres sometimes causes irritation of the skin and less frequently irritation of the eyes, nose or throat.

## 03 - COMPOSITION/ INFORMATION ON INGREDIENTS

**3.1/2. Substance/Mixture:** Fibrous glass (E-type, continuous filament) compositions consisting principally of oxides of silicon, aluminium, calcium, boron and magnesium, fused in an amorphous vitreous state.  
Aluminium Foil and neoprene adhesive.

**3.3. Additional information:** Glass fibre does not meet the classification for a 'dangerous substance' according to 67/548/EEC. Glass Fibre carries no CAS registry number and no EPA code designation number.  
Glass as a generic substance, the E-glass composition included, has been incorporated in the EINECS under no. 65997-17-3.

## 04 - FIRST AID MEASURES

### 4.1. Description of first aid measures.

**inhalation :** In case of inhalation of glass dust particles or fumes from thermal degradation move into fresh air, if irritation persists seek medical attention.

**skin contact:** If irritation is a problem then rinse the affected areas with cool water, then wash gently with mild soap. If glass fibre becomes embedded in the skin then seek medical attention

**eye contact:** flush eyes with clear water for at least 15 minutes, if irritation persists seek medical attention

**ingestion:** -

**4.2. Most important symptoms and effects, both acute and delayed.** -

**4.3. Indication of any immediate medical attention and special treatment needed.** -

## 05 - FIREFIGHTING MEASURES

**5.1 Extinguishing media.** Glass fibre is inherently non-flammable. Water, carbon dioxide, dry powder.

**Unsuitable extinguishing media:** -

**5.2 Special hazards arising from the substance or mixture:** -

**5.3 Advice for firefighters:** In a sustained fire, self contained breathing apparatus and protective clothing should be utilised

## 06 - ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures:** -

**6.2. Environmental precautions:** -

**6.3. Methods and material for containment and cleaning up:** Dust pan and wet brush.

## 07 - PRECAUTIONS FOR SAFE HANDLING

**7.1 Precautions for safe handling:** No special measures, for personal protection see section 8. Glass fibre has electrical isolation properties and so may give some static.

**7.2. Conditions for safe storage, including any incompatibilities:** Store below 25°C in a dry, well ventilated place.

**7.3. Specific end uses:** Product is intended for use as described in section 1.2

#### 08 - EXPOSURE CONTROLS /PERSONAL PROTECTION

- 8.1. Control parameters** Not applicable
- Control limits:** Airborne glass dust – TLV = 5mg/m<sup>3</sup>  
Possible trace retained toluene = 100ppm
- DNEL / PNEC:** -
- 8.2 Exposure controls:** Wash hands before breaks and at the end of the day. Launder items of clothing contaminated with glass fibre dust separately.
- Respiration protection:** None required, if airborne glass fibre concentrations exceed the control limit, respiratory protection for nuisance dust should be provided.
- Hand protection:** Protective gloves.
- Skin protection:** overalls buttoned to fit loosely at the neck and wrists and long trousers may reduce irritation in some operations. Barrier cream may provide further protection from irritation.
- Eye Protection:** Safety glasses with side shields should be worn.

#### 09 - PHYSICAL AND CHEMICAL PROPERTIES

##### 9.1. Information on basic physical and chemical properties

<b>Appearance:</b>	White woven fibres / Aluminium Sheet	<b>Density:</b>	2.6 g/cm <sup>3</sup>
<b>Colour:</b>	White / Silver	<b>Melting point:</b>	830°C
<b>Odour:</b>	-	<b>Evaporation rate:</b>	-
<b>pH (as supplied):</b>	not applicable	<b>Auto-ignition temperature:</b>	not applicable
<b>Viscosity:</b>	-	<b>Explosive limits</b>	not applicable
<b>Flash point:</b>	not applicable	<b>Solubility in water:</b>	Insoluble in water. Glass fibre will disperse, to some extent in organic solvents like styrene, acetone etc.
<b>Boiling point:</b>	not applicable	<b>Partition coefficient: (N-octanol/water)</b>	-

##### 9.2 Other information:

#### 10 - STABILITY AND REACTIVITY

- 10.1. Reactivity:** -
- 10.2 Chemical stability:** Stable under recommended storage and handling conditions (see section 7).
- 10.3. Possibility of hazardous reactions:** -
- 10.4 Conditions to avoid:** -
- 10.5 Incompatible materials:** Basic phosphates, alkalis, hydrofluoric acid
- 10.6 Hazardous decomposition products:** Thermal decomposition: Carbon dioxide, carbon monoxide, trace amounts (ppm) hydrocarbons, nitrogen based and halogen based gases.

## 11 - TOXICOLOGICAL INFORMATION

- 11.1. Information on toxicological effects** This product is not manufactured using glass fibre with diameters that are classified as respirable (fibres with diameters less than 3.0 microns which are capable of travelling into the body to the trachea, bronchi etc)  
All of the fibres in this product have fibre diameters equal to or greater than 4.5 microns, and are therefore not physically capable of travelling beyond the nose and pharynx.
- Inhalation:** The products of thermal decomposition, including carbon dioxide and carbon monoxide may cause dizziness and headache after prolonged low level exposure. Pre-existing upper respiratory and lung disease may be aggravated.
- Skin:** No toxicological effect.
- Eye:** No toxicological effect.

## 12 - ECOLOGICAL INFORMATION

- 12.1 Toxicity** -
- 12.2 Persistence and degradability:** Glass fabrics are not readily biodegradable. No known harmful effects on the environment.
- 12.3 Bioaccumulative potential:** -
- 12.4 Mobility in soil:** -
- 12.5 Result of PBT and vPvB assesment:** -
- 12.6 Other adverse effects:** -

## 13 - DISPOSAL CONSIDERATIONS

- 13.1 Waste tratment methods:** Dispose as solid, non-recyclable waste according to local regulations.
- Contaminated packing:** Empty containers should be transported/delivered using a registered waste carrier for local recycling where possible or waste disposal.

## 14 - TRANSPORT INFORMATION

- 14.1 UN number** No special precautions or restriction involving transport are known.
- 14.2 UN proper shipping name** -
- 14.3 Transport hazard class(es)** -
- 14.4 Packing group** -
- 14.5 Environmental hazards - MP:** -
- 14.6 Special precautions for user:** -
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** -

## 15 - REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/ legislation specific for the substance of mixture** -

**15.2 Chemical Safety Assessment:** -

## 16 - OTHER INFORMATION

**Recommended use:** Not applicable, part of article.

**Further information:** Consult technical data sheet.

**Additional information:** The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.