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Hants. SO50 7HH.

*Manufacturer of Sewn Products for the Insulation Industry*

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## DATA SHEET

### REMOVABLE INSULATION COVERS

Standard insulation covers are constructed from Silicone Elastomer 80 g.s.m. coated woven glass cloth (grey) on the inner and outer faces with an infill of 50mm Mineral Wool. Fastening is by means of touch and close fastener and each cover is fitted with cord drawstrings to ensure a snug fit. This 'standard' is suitable for use on various services up to a temperature of 250 degrees Centigrade.

Different materials and infills are available for lower and higher temperatures (eg. Aluminised cloth and 50mm mineral wool for temperatures to 160 degrees Centigrade to Silica Cloth and 50mm Carbowool for temperatures to 1000 degrees Centigrade). Details can be obtained on request according to the actual temperature involved and/or application required.

It is also advisable that we are informed if the covers are required for external use as this will also affect the specification of cover we supply.



*Handwritten scribbles and signatures at the top of the page.*

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SILICONE - ~~XXXXXXXXXXXX~~ ~~XXXXXXXXXXXX~~  
(XXXXXXXXXX)

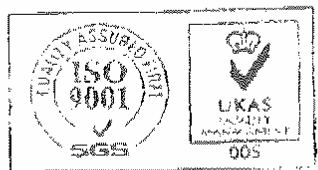
Page 1

250°C

| Product Data Sheet   |  |
|--|--|
| Product Identification Reference   | <b>EKS409</b>  |
| Description  | Filament FORTAGLAST™ "E" Glass fabric coated on one side with fully cured Flame Retardant Silver Grey Silicone Rubber. |
| Weave  | 3 / 1 Broken Twill   |
| Weight (g/m <sup>2</sup> )   | 495 nominal  |
| Thickness (mm)   | 0.40 nominal   |
| Cloth construction (base fabric)   |  |
| Ends / dm  | 189 nominal  |
| Picks / dm   | 110 nominal  |
| Tensile strength ( base fabric)  |  |
| Warp (N / 50mm)  | 3840 nominal   |
| Weft (N / 50mm)  | 2240 nominal   |
| Building Regulations Fire propagation test BS476 part 6  | Class "O" Rating - Fire Propagation Index 2.2  |
| Surface spread of flame BS476 part 7   | Certification to "Class 1" pass  |
| Roll length (metres)   | 50 nominal   |
| Roll width (cm)  | 100 and 127 wide nominal   |
| Availability   | Ex stock   |
| <small>The information contained in this data sheet is believed to be true at the time of printing. Any statements contained or inferred to within are an expression of opinion and presented without guarantee. It is up to the user to determine suitability of use, or potential patent infringement for specific applications.</small> |  |

Title: "E" Glass fabric coated 1 side with FR Silver Grey Silicone  
Revision: 1.00  
This Document (Serial no : 1457) is controlled by Quality Workbench

Date: 17/09/2001  
Unless otherwise stated this copy is UNCONTROLLED



CERTIFICATE No. Q1784



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Silicone  
Page 2

## Material Safety Data Sheet

### 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Description TBA Glass Fibre Textiles

Symbol Prefix **EKS** - GKS - EKSS - GKSS

Manufacturer / Supplier TBA Textiles Ltd  
PO Box 40  
Rochdale  
Lancs  
OL12 7EQ

Date of Issue: February 2001  
Prepared by: W Barber

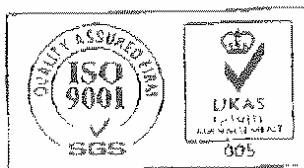
Tel No. for information / emergency (01706) 647422  
Fax No. " " " (01706) 354295

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

The products covered by this data sheet are glass cloths coated on one or both sides with silicone rubber (the letter 'S' indicates single sided, letters 'SS' double sided). The base fabric is made from continuous filament fibres made from borosilicate E Glass (CAS-65997-17-3). The filament diameters are uniform, 9 micron and are therefore above the maximum size considered to be respirable (approx 3 micron). They will not sub-divide into fibrils of smaller diameter. The fibres contain small amounts of complex organic surface dressings (e.g. starch based and pva compounds). The silicone rubber coating applied to the fabric contains quantities of compounding agents and pigments to give the product the required performance characteristics and colour.

### 3. HAZARDS IDENTIFICATION

TBA Glass Textiles are labelled for identification purposes only being of low hazard.



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SILICONE  
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3/2

#### 4. FIRST AID MEASURES

- Inhalation In the unlikely event of excessive inhalation of dust, (or fumes from a sustained fire situation), remove the individual to the fresh air. Obtain medical advice.
- Skin Irritation In the unlikely event of skin irritation, wash affected part with mild soap and running water. If irritation persists, obtain medical advice.
- Eye Irritation Irrigate eyes if affected by entry of dust. Obtain medical advice if irritation persists.

#### 5. FIRE-FIGHTING MEASURES

- Flammability The materials will not support combustion. Glass will soften and subsequently melt at temperatures above 700°C. (See product data sheet for further information).
- Special Firefighting Procedures In a sustained fire the products will degrade and the surface dressings and finishes will give rise to irritant fumes and smoke, including carbon monoxide, carbon dioxide and silicone dioxide. Appropriate personal protection and approved forms of self-contained breathing apparatus should therefore be worn in such situations.
- Extinguishing Media Use that appropriate to the surrounding fire

#### 6. ACCIDENTAL RELEASE MEASURES

Glass coated textile products damaged or made friable should be handled with the use of personal protective equipment.

#### 7. HANDLING AND STORAGE

It is highly unlikely that these products will give rise to significant amounts of dust during normal handling and dust control measures will rarely be required in circumstances involving the fabrication of products from these materials. However, in accordance with good working practices the production of debris should be minimised and the accumulation of dust should be removed by dustless methods. No special storage conditions are required on health grounds

#### 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Occupational exposure to man-made mineral fibre dust of non-respirable size should be kept to the minimum that is reasonably practicable and should not exceed a Maximum Exposure Limit of 5mg/m<sup>3</sup> (8 hour TWA) (Refs 1 & 2).

Only if the materials are being handled extremely vigorously or subjected to harsh abrasion are dust levels likely to rise above the exposure limit given above. In such circumstances the provision of local exhaust ventilation should be considered, or if this is not practicable, dust masks should be worn approved for use against irritant dust. These should be worn in accordance with manufacturer's instructions.

To reduce the chance of skin irritation when handling glass fibre based materials, overalls of a close weave material should be worn. Gloves, arm cuffs or barrier creams may also be advantageous in some circumstances. However, emphasis should be placed on personal hygiene and hands and arms should be rinsed copiously under running water before washing.

Where there is a possibility of glass fibre entering the eye, suitable eye protection should be worn.

SILICONE  
PAGE 4

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                        |  |
|------------------------|--|
| Weights                | See appropriate Product Data Sheets. (Glass has a specific gravity of 2.5 approx). |
| Appearance             | White, grey or red dependent upon grade required                                   |
| Odour                  | The products have no discernible odour.  |
| Solubility in Water    | insoluble  |
| Melting Point          | 700 +°C  |
| Boiling Point          | Not applicable   |
| Vapour Pressure        | Not applicable   |
| Percent Volatile (vol) | Not applicable   |
| Evaporation rate       | Not applicable   |

## 10. STABILITY AND REACTIVITY

The products are stable when used for the intended industrial applications. (See product data sheet for range of service temperatures).

## 11. TOXICOLOGICAL INFORMATION

### Primary Routes of Potential Exposure

Inhalation, skin and eye contact

### Effects of Over-exposure (Acute and Chronic)

|                   |   |
|-------------------|---|
| Inhalation (Dust) | In view of the encapsulating nature of the rubber coating applied to the base fabrics it is most unlikely that glass dust will be produced as a result of product usage. Glass dust from the materials referred to in this Data Sheet is not regarded as respirable in view of the large diameter of the continuous filaments used, and the levels of dust likely to arise from most operations involving the handling and use of the materials will be negligible. Only if the products are subjected to harsh mechanical abrasion are levels of dust likely to arise that could be irritating to the upper respiratory tract. This will be a mixture of particulate dust (rubber and glass). Such effects are usually transitory leaving no permanent damage. |
| Fume              | Contact with molten metal or flame may give rise to localised emission of fume.   |
| Skin Irritation   | Some people who come into contact with glass fibre experience reddening and itching of the skin. Those who are subject to this effect are most likely to experience it when handling the materials for the first time or after a period of no contact as hardening of the skin usually occurs. Such effects are not likely in the handling of the products due to the presence of the silicone rubber coating. The rubber is not likely to give rise to skin problems.  |
| Eye Irritation    | Entry of dust fragments into the eye will cause foreign body irritation.  |
| Carcinogenicity   | Continuous glass filament has been reported as a material 'Not classified as to human carcinogenicity'.   |

SILICONE  
PAGE 5

## 12. ECOLOGICAL INFORMATION

These products are not readily biodegradable. No known harmful effect on the environment.

## 13. DISPOSAL CONSIDERATIONS

The disposal of waste should be carried out in accordance with national or regional directives - normally by burial in controlled industrial landfill sites.

## 14. TRANSPORT INFORMATION

All TBA Glass products are labelled as in (Section 3) and transported double wrapped to prevent possible damage.

## 15. REGULATORY INFORMATION

No specific regulatory information is applicable to this silicone treated glass cloth.

## 16. OTHER INFORMATION

### References

1. Health & Safety Executive Guidance Note EH 46. Man-Made Mineral Fibres (Rev Nov 1990)
2. Health & Safety Executive Guidance Note EH 40/2000 Occupational Exposure Limits 2000

For further information contact:

TBA TEXTILES LTD

### NOTE:

This Data Sheet relates to the material as supplied. The information contained herein is given in good faith, but no liability will be accepted by the Company in relation to same. The acquisition of additional information may necessitate revisions to parts or all of this Data Sheet, and such information will be supplied as it becomes available.

As the Company's products are used for a multiplicity of purposes, and as the Company has no control over the method of their application or use, the Company excludes all conditions or warranties, express or implied, by statute or otherwise, as to their products and/or their fitness for any particular purpose.

Any technical co-operation between the Company and the Customer is given for the Customer's assistance only and without liability on the part of the Company.



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### Acoustic Performance

Icerock Ductwrap can be used for noise control of ductwork. The lightweight, fire safe and robust nature combined with excellent sound absorption characteristics make it an ideal choice for sound attenuation applications.

### Fire Performance

The rock mineral wool of Icerock Ductwrap is classified as non-combustible to BS 476: Part 4: 1970 (1984), Class 1 Surface Spread of Flame to BS 476: Part 7: 1997. The base rock mineral wool and the foil facing comply with the Class 'O' requirements of the Building Regulations when tested to BS 476: Part 6: 1989 and Part 7: 1997.

### Operating Temperatures

Icerock Ductwrap can be used with operating temperatures up to 200°C and down to cryogenic temperatures, provided that a 100% vapour barrier is installed. The surface temperature of the facing should not exceed 60°C.

### Durability

The mineral wool of Icerock Ductwrap is odourless, non-hygroscopic, rot proof, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

### Environmental

Icerock Ductwrap is free from CFCs, HCFCs and any other material with ozone depletion potential in its manufacture and content and represents no known threat to the environment.

Icerock Ductwrap's manufacture has a low impact on the environment and is classified as Zero ODP and Zero GWP.

### Handling and Storage

Icerock Ductwrap is easy to handle and install, being lightweight and easily cut to size.

Icerock Ductwrap is supplied shrink wrapped in polythene, which is designed for short term protection only. For longer term protection on site, the product should be stored either indoors, or under cover and off the ground.

Icerock Ductwrap should not be left permanently exposed to the elements.

Ref: RD84207