



# SLEEVE IT LIMITED

## Fire sleeve Red Oxide silicone coated glass fibre sleeving

Sleeve It Fire sleeve is manufactured from 'E' glass fibre yarn knitted to form a sleeve and coated with high-grade silicone elastomer rubber.

### What's it used for?

Sleeve It Fire Sleeve is a very flexible sleeving designed to protect wires, cables, and hoses from high ambient temperatures. It will offer continuous protection at an operating temperature of 260°C and can withstand a molten metal splash at 1200°C

### Standard format

Inside diameter: 6mm to 127mm

Method of supply: 15mtr coils

### Technical Information

Colour:	Red Oxide
Wall Thickness:	4mm +/- 0.5mm
Average Dielectric Strength:	30Kv +

### Industrial Grade

Red oxide silicone coated glass sleeving (Industrial Grade) is manufactured from 'E' glass fibre yarn **knitted** to form a sleeve and coated with high grade iron oxide silicone elastomer rubber. Red oxide silicone coated glass sleeving possesses outstanding characteristics making it ideal for protecting hose assemblies, cables and wires from high heat sources and occasional flame.

- High flexibility
- Continuous protection at an operating temperature of 260 deg. C
- Ability to withstand a molten metal splash at 1200 deg. C
- Highly resistant to most oils, hydraulic fluids, fuels, acids and alkalis
- When exposed to flame the high grade rubber will form a protective SiO<sub>2</sub> layer
- Health & Safety - Provides personnel with protection against burns from hot hoses, steam lines etc.
- Helps to reduce energy loss by retaining heat within pipework
- Excellent flame resistance
- Good abrasion resistance

### Aerospace Grade

Red oxide silicone coated glass sleeving (Aerospace Grade) has similar general characteristic but is manufactured from 'E' glass fibre yarn. **Braided** to form a sleeve and coated with high grade iron oxide silicone elastomer rubber.

The braided version allows qualified hose assemblies to pass AS1055D testing under stated flow and pressure conditions.



### General Data Fire /Flame Resistance

The glass substrate in either style of sleeving will not burn. The silicone rubber employed as the coating is a high grade rubber which meets the rating V1 according to UL 94 test procedures. Details of this test method can be supplied if required.

Silicones from two sources are used in the manufacture of these sleeve and we are aware of certification letters that confirm the ratings.

One letter from the silicone manufacturer is dated 23rd January 2007 and states 'The flame retardant property, tested on silicone rubber slabs according to UL 94 test procedure (vertical flame test) was rated as a VO'

There is a similar letter from the other silicone manufacturer where they have certified the rubber to a V1 rating.

We hereby certify that the rubber used on the silicone coated sleeving comes only from the two manufacturers as mentioned above, and therefore the rubber rating is V1 or better.

All information shown, including illustrations is believed to be reliable. Users, however, should independently evaluate the suitability of the product for their application. Sleeve It makes no warranties as to the accuracy or completeness of the information and disclaims any liability regarding its use. In no case will Sleeve It be liable for any incidental, indirect or consequential damages arising from the sale, resale, use or misuse of the product. Sleeve It specifications are subject to change without notice. In addition Sleeve It reserves the right to make changes in materials and processing, without notification to the buyer, which do affect compliance with any applicable specification.

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### Red Oxide Silicone Coated Glass Fibre Sleeving

Standard Available sizes Nominal inside diameters (mm)	Characteristics	
6	Effect of heat	Will not burn. Retains 75% tensile @ 340°C
10		
13		
16		
20	Effects of acids & alkalis	Resistant to acids is fair. Resistance to Alkalis is good
22		
25		
28		
32	Silicone rubber Durometer, Shore A Initial Aged 240hrs @ 200°C	875
35		
38		
41		
44	Dielectric Strength	30Kv +
50		
57	Tensile Strength	400,000 – 500,000 psi
63		
70	Elastic Recovery	100%
76		
83	Specific Gravity	2.54 – 2.69
89		
95	Effect of bleaches & solvent	unaffected
102		
114		
127		

**Standard method of Supply** : 15M coils

Can be supplied in other forms e.g. layered into boxes. – subject to size & Quantity

**Other diameters** – . Velcro fasten versions (for retro fit) or larger inside diameter sleeves with Velcro and /or turnbuckle fastenings can be produced to order. These are available up to 300mm inside diameter.