

High Temp Glass Fibre Sleeve

ABOUT THIS PRODUCT

Impregnated with silicone varnish, this sleeving is ideal for thermal and electrical insulation applications where high operating temperatures exist. It's a highly flexible braided glass sleeve that is ideal for use where low fire hazard properties are required, particularly in mass transit and underground applications.

Please note: Care should be taken to minimise dust formation during handling and cutting this glass based material as dust or broken particles may cause skin irritation.

Note: Other diameters supplied upon request.

Different shapes available: Rectangular, Oval, etc.

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FEATURES AND BENEFITS

- Highly flexible – will bend without flattening around a diameter less than ten times its bore
- Excellent temperature resistance
- Highly resilient
- LSZH
- Self-extinguishing
- Oxygen index 64.5%
- Good fray resistance
- Compatible with most impregnating varnish systems
- Excellent resistance to solvents

APPLICATIONS

Harnessing
Mass transit cable protection
Electrical insulation

MATERIAL DATA

Product Code	230
Material	Silicone Impregnated Fibreglass
Standard Colour	Natural
Operating Temperature – °C	-40 – +300 (Peaks at 450 °C)
Dielectric Strength – kV	1
Relevant Specifications	IEC 60684, UL 1441, LUL Approved

TECHNICAL TABLE

PROPERTY	TEST	RESULT
THERMAL OVERCHARGE AND AGEING RESISTANCE	Simulation of real operating conditions	10 days at +350°C
HEAT RESISTANCE	Bending after heating IEC 60684 Part 2 Clause 13, 48 hours at +400°C	No cracking. Silicone varnish will burn off.
CHEMICAL RESISTANCE	Simulation of real operating conditions	Excellent resistance to solvents. Compatible with most insulating varnishes
FLAMMABILITY	Flame propagation: IEC 60684 Part 2 Clause 26 Method B vertical wire.	Will not ignite
	Flame test: UL 1441 VW-1 vertical with wire	Will not ignite
ABRASION RESISTANCE	SEA ARP 1536	Minimum 4.000 cycles (Ø=20mm)
COLD RESISTANCE	Bending at low temperature IEC 60684-Part 2 Clause 14	No cracking after bending at -70°C
OXYGEN INDEX (I.O.)	UNE EN ISO 4589	10 = 64,5%
TOXICITY	NF X 70-100	ITC = 4,08
SMOKE DENSITY	NF X 10-702 (Test conducted in flame mode)	V0F4 = 3,2
		Dmax = 3
SMOKE INDEX	NF F 16-101	IF = 2,2

Nominal Bore (mm)	Bore Tolerance (mm)	Minimum Wall Thickness (mm)	Standard Packaging
0.5	+0.20	0.20	400
1.0	+0.20	0.25	300
1.5	+0.20	0.25	300
2.0	+0.20	0.25	300
2.5	+0.20	0.25	300
3.0	+0.20	0.25	300
3.5	+0.30	0.25	300
4.0	+0.30	0.30	300
4.5	+0.30	0.30	300
5.0	+0.30	0.30	200
6.0	+0.30	0.30	200
7.0	+0.30	0.30	200
8.0	+0.0	0.30	200
9.0	+0.50	0.30	200
10.0	+0.50	0.30	200
12.0	+0.50	0.45	100
14.0	+0.50	0.45	100
16.0	+1.0	0.45	100
18.0	+1.0	0.55	100
20.0	+1.0	0.55	100
22.0	+1.0	0.60	50
25.0	+1.0	0.60	50