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	UL 1441 Minimum 0,9 kV
Relevant Specifications	IEC 60684, UL 1441, LUL Approved

Reference	Nominal Bore (mm)	Bore Tolerance (mm)	Minimum Wall Thickness (mm)	Standard packaging (m)
VSR10_005	0.5	+0,20	0.20	400
VSR10_008	0.8	+0,20	0.25	400
VSR10_010	1.0	+0,20	0.25	300
VSR10_030	3.0	+0,20	0.25	300
VSR10_035	3.5	+0,30	0.25	300
VSR10_040	4.0	+0,30	0.30	300
VSR10_050	5.0	+0,30	0.30	200
VSR10_060	6.0	+0,30	0.30	200
VSR10_080	8.0	+0,30	0.30	200
VSR10_090	9.0	+0,50	0.30	200
VSR10_100	10.0	+0,50	0.30	200
VSR10_120	12.0	+0,50	0.45	100
VSR10_140	14.0	+0,50	0.45	100
VSR10_160	16.0	+1,0	0.45	100
VSR10_180	18.0	+1,0	0.55	100
VSR10_200	20.0	+1,0	0.55	50
VSR10_250	25.0	+1,0	0.60	50

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. Flame test: UL 1441 VW-1 vertical with wire	Will not ignite 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 (-94º
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 conduced in flame mode)	V0F4 = 3,2 Dmax = 3
SMOKE INDEX	NF F 16-101	IF = 2,2
AGE RESISTANCE	3000 hours at 300ºC (+572ºF) 10 days at +350ºF (+662ºF) 1 hour at +450ºC (+842ºF)	No cracking or detachment of coating shall be visible and the original colours shall be clearly recognizable
FIRE BEHAVIOUR	EN 45545-2	R22&R23: Hazard Level HL1,HL2, HL3