Exp High Temp Glass Fibre Cable 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.*

FEATURES AND BENEFITS

- Expandable – versatile wiring harness assembly
- 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
- Flexible conduit
- Electrical insulation
- Mass transit cable protection
- Exhaust assemblies/system components

MATERIAL DATA

Product Code	232
Material	Silicone impregnated fibreglass
Standard Colour	Natural
Operating Temperature – ˚C	-40 – +300 (Peaks at +450˚C)
Relevant Specifications	IEC 60684, UL No. E151092, UL 1441, LUL Approved

DIMENSIONS

Diameter minimum	Diameter Maximum (*)	Minimum Wall Thickness (mm)	Standard Packaging
4	9	0.60	100
6	16	0.60	100
8	20	0.60	100
10	22	0.60	100
12	28	0.60	100
14	35	0.60	100
16	40	0.60	100
20	55	0.60	50
25	65	0.60	50
30	75	0.60	50
40	90	0.60	50
50	120	0.60	25

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TECHNICAL TABLE

PRODUCT	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
CHAMICAL RESISTANCE	Simulation of real operating conditions	Excellent resistance to solvents. Compatible with most insulating varnishes
FLAMMABILITIY	Flame propagation: IEC 60684 Part 2 Clause 26 Method B vertical with wire. Flame test: UL 1441 VW-1 vertical with wire	Will not ignite Will not ignite
ABRASION RESISTANCE	13mm ground drill rod abrader, 1kg weight, 20mm amplitude, 150 cycles/min.	Minimum 25,000 cycles
COLD RESISTANCE	Bending at low temperature IEC 60684 – Part 2 Clause 14	No cracking after bending at -40˚C
OXYGEN INDEX (I.O.)	UNE EN ISO 4589	I.O. = 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 (IF)	NF F 16-101	IF = 2.2
AGEING RESISTANCE	3000 hours at +300ºC (+572ºF) 10 days at +350ºC (+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

As the inside diameter is coming closer to the maximum expansion, the sleeving shrinks in length.

Other diameters supplied on request.

(*) Maximum expansion can be greater than value stated. This is minimum guaranteed expansion.