



## SGS-X

**SGS-X** is a halogen-free expandable braided fibreglass sleeve impregnated with silicone varnish. It has an operating temperature of -70°C to +300°C and withstands short-term peaks up to 450°C. It is UL approved and available in several colours and sizes up to 50mm supplied diameter as standard.

SGS-X is flexible, fray resistant, and compatible with most impregnating varnish systems. Thanks to its thermal and electrical insulating properties and the mechanical protection offered, it is often used in heaters as well as harnesses and hydraulic/ fuel conduits which are subjected to high temperatures. The primary difference between this fibreglass sleeve and our standard silicone coated jacket is its ability to expand to over twice its supplied diameter. This allows for ease of assembly especially over sets of wire of differing diameters. It also ensures a snug fit on components which vary in size.

| Properties                                 | Typical Values  |  |
|--|---|--|
| <b>GENERAL</b>                             |   |  |
| Operating temperature                      | IEC 60684-3, UL approval, RoHS Compliant                                    |  |
| Short-term peak temperature                | 450°C   |  |
| <b>PHYSICAL</b>                            |   |  |
| Mechanical resistance                      | Excellent abrasion resistance   |  |
| <b>THERMAL</b>                             |   |  |
| Flammability                               | Will not ignite   | IEC 60684 Pt2 Cl26 meth. B, UL 1441 VW-1 |
| Low temperature flexibility (4hrs @ -55°C) | at -70°C, no cracking after bending   | IEC 60684 Pt 2 Cl 14                     |
| Limited Oxygen Index                       | 64.5%   | UNE EN ISO 4589                          |
| <b>ELECTRICAL</b>                          |   |  |
| Electrical resistance                      | Excellent resistance to solvents, compatible with most insulating varnishes | UL                                       |
| <b>CHEMICAL</b>                            |   |  |
| Toxicity                                   | ITC 4.08  | NF X 70 - 100                            |
| Smoke Density                              | VOF4=3.2, Dmax=3  | NF X 10 - 102                            |

## TECHNICAL DATA

- OPERATING TEMPERATURE**  
-70°C to +300°C
- COLOURS**  
White, Black, Yellow
- SIZES**  
4mm – 50mm
- PACKING**  
Reels, cut to length, cut sleeves
- APPROVALS**  
IEC 60684-3, UL approval, RoHS Compliant
- APPLICATIONS / INDUSTRIES**  
General, Commercial, Electrical, Electronics,

| Size (mm) | Nominal wall thickness (mm) | Application range (mm) |
|-----------|-----------------------------|------------------------|
| 4         | 0.85                        | 4 – 9                  |
| 6         | 0.85                        | 6 – 16                 |
| 8         | 0.85                        | 8 – 20                 |
| 10        | 0.85                        | 10 – 22                |
| 12        | 0.85                        | 12 – 28                |
| 14        | 0.85                        | 14 – 35                |
| 16        | 0.85                        | 16 – 40                |
| 20        | 0.85                        | 20 – 55                |
| 25        | 0.85                        | 25 – 65                |
| 30        | 0.85                        | 30 – 75                |
| 40        | 0.85                        | 40 – 90                |
| 50        | 0.85                        | 50 – 120               |

Printasleeve Ltd is as diligent as possible in compiling and updating the above information. It reflects averages derived from product sample testing, is subject to normal manufacturing and testing tolerances and may be changed without notice. Furthermore aesthetic and textural style differences can result in local variation. For specific or further information concerning our products, their specifications and their utilisation please contact us.