



uki is one of Europe's largest suppliers of electrical insulation materials and flexible films

**UK Insulations
Product Information**

Silicone Elastomer Sleeving

Product Features

SILICONE ELASTOMER COATED BRAIDED GLASS INSULATING SLEEVING CLASS H (180°C)

-VIDAFELX S500 2.0KV GRADE

-VIDAFLEX S520 1.0KV GRADE

-VIDAFLEX S550/SD550 4.0KV GRADE

-VIDAFLEX S567 4.0KV GRADE (0.7MM MIN WALL THICKNESS)

-VIDAFLEX S560 6.0KV GRADE (1.0MM MIN WALL THICKNESS)

-VIDAFLEX S575 10.0KV GRADE

Description

The Vidaflex S500 series of high temperature insulating sleeveings are manufactured by coating braided "E" glass yarn with a solventless silicone elastomer. The process has no significant environmental hazard.

The minimum size of the glass yarn filaments is greater than 9 micron and hence offer no hazard from inhalation.

All Vidaflex S500 grades display a high degree of flexibility over the temperature range -60°C to +250°C and will operate continuously at 180°C with a short term rating of 250°C.

Grades are available with electric strengths from 1.0 to 10.0kV.

Vidaflex types S567 and S560 have guaranteed minimum wall thickness of 0.7 and 1.0mm respectively to meet Approval Authority Standards.

Vidaflex S550 has U.L. and C.S.A. recognition. File No. E154100(M).

Vidaflex S560 employs a heavy braided glass base and is characterized by extreme mechanical toughness.

The Vidaflex S500 series of insulating sleeveings are classed as self-extinguishing.



Applications

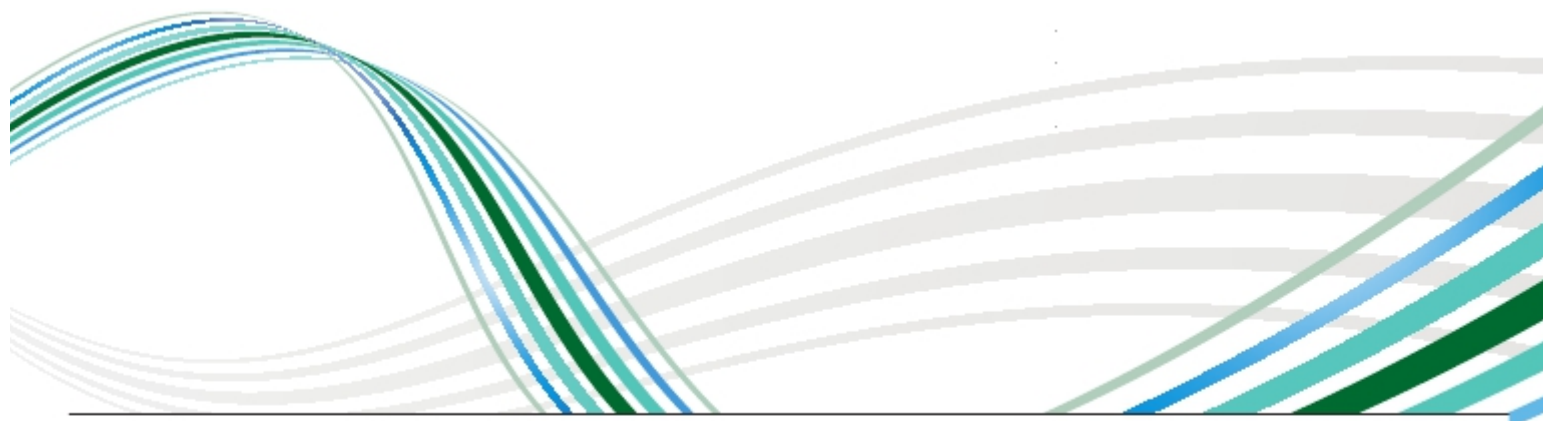
The Vidaflex S500 series find extensive use in high temperature rated domestic appliances, heating appliances and central heating boilers. Their use is for primary and secondary insulation and for the protection of cables and components in high heat zones.

The Vidaflex S500 series are employed in Class H rated rotating machines for winding lead out and joint insulation and the mechanical toughness ensures their suitability for the insulation of winding leadouts, enabling the enamelled winding wire to be led directly to the terminal box.

The Vidaflex S500 series are used extensively in the construction of wiring harnesses for use in motor vehicles.

Packaging and Supply

COLOURS	BLACK, YELLOW, BLUE, BROWN, RED, NATURAL
REELS/DRUMLESS HANKS	CONTINUOUS LENGTHS / CUT LENGTHS
STANDARD LENGTHS	
1.0-3.5MM	250MTRS
4.0-8.0MM	100MTRS
9.0-25.0MM	50MTRS
CUT LENGTHS	
TOLERANCE ON CUT LENGTHS	
UP TO 50MM	± 1.0MM
51-100MM	± 2.0MM
101MM AND OVER	± 5.0MM
SPECIAL TOLERANCES BY ARRANGEMENT	
*S520 AVAILABLE IN GREY ONLY	



PRODUCT DESIGNATION	S500	SD550	S575	S567	S560
THERMAL CLASSIFICATION	CLASS H	CLASS H	CLASS H	CLASS H	CLASS H
MAX SHORT TERM TEMP	250°C	250°C	250°C	250°C	250°C
BORE SIZES	1.0 – 25.0MM	1.0-25.0MM	4.0-20.0MM	1.0-25.0MM	2.0-22.0MM
TOL ON BORE SIZES					
1.0MM – 3.0MM	±0.2MM	±0.2MM	±0.2MM	±0.2MM	±0.2MM
3.5MM – 8.0MM	±0.25MM	±0.25MM	±0.25MM	±0.25MM	±0.25MM
9.0MM – 12.0MM	±0.5MM	±0.5MM	±0.5MM	±0.5MM	±0.5MM
14.0MM – 25.0MM	±1.0MM	±1.0MM	±1.0MM	±1.0MM	±1.0MM
WALL THICKNESS (MIN)					
BORE SIZES 1.0MM – 7.0MM	0.6MM	0.6MM	MIN	MIN	MIN
>8.0MM	0.8MM	0.8MM	1.0MM	0.7MM	1.0MM
ELECTRIC STRENGTH 20°C					
TESTED TO IEC 684-2	2.0KV/1MIN	4.0KV/1MIN	10.0KV/1MIN	4.0KV/1MIN	6.0KV/1MIN
ASTM D350	2500V	7000V	7000V	7000V	7000V
STANDARDS APPLICABLE	684-3	684-3	684-3	684-3	684-3
IEC	402	401	400	400	400
ASTM D-372	TYPE S	TYPE S	TYPE S	TYPE S	TYPE S
NEMA VS-1	GRADE C1	GRADE B	GRADE A	GRADE B	GRADE A
FLAMMABILITY	SE	SE	SE	SE	SE

Typical Properties cont.

PRODUCT DESIGNATION	S550	S520
SPECIFICATION	UL RECOGNITION CSA APPROVAL CERTIFICATE NO E154100(M)	NOT APPLICABLE
THERMAL CLASSIFICATION	UL RATING 200°C	
MAX SHORT TEM TEMP	250°C	
BORE SIZES	1.0 25.0MM	
TOLERANCE ON BORE SIZES	1.00MM ± 0.10MM 1.5 – 3.5MM ± 0.15MM 4.0 – 5.0MM ± 0.20MM 6.0 – 8.0MM ± 0.25MM 9.0 -12.0MM ± 0.30MM 14.0 – 16.0MM ± 0.40MM 18.0 – 25.0MM ± 0.50MM	3.0-10.0MM ± 0.50MM 12.0MM ± 1.0MM
WALL THICKNESS (MIN)	1.0 – 8.0 – 0.80MM Ø 8.0MM – 0.90MM	0.6MM
ELECTRIC STRENGTH 20°C		
TESTED TO IEC 684-2	4KV/MIN	1KV/MIN
UL RATING	600V	-
ASTM D372		
NEMA US-1	7000V	-
FLAMMABILITY	SE	SE
SE – SELF EXTINGUISHING		