

## **Technical data: HS8 Insulating hose**

Bersenbrück, June 2002

### **Textile E-glass hose type range HS 8 with high wall thickness and silicone coated**

#### Base material

Knitted or braided Textile E-glass hose coated with high grade silicon rubber. The red colour results from the  $\text{Fe}_2\text{O}_3$  content.

#### Fields of application

Heat protection of cables, wires and similar conductors against high temperature affection, human protection against burns, as well as general heat loss

#### Construction

Base material made from endless drawn Textile E-glass fibre

#### Chemical composition

$\text{SiO}_2$	→	53 - 57 %
$\text{Al}_2\text{O}_3$	→	12 - 15 %
$\text{B}_2\text{O}_3$	→	5 - 8 %
CaO and MgO	→	22 - 26 %
$\text{Na}_2\text{O}$	→	< 1 %
F	→	0,0 - 0,6 %
Others	→	none

#### General product data

Average filament diameter according to DIN 53 811	→	9 $\mu\text{m}$
Tolerance of average filament diameter	→	0,8 +- 0,2 $\mu\text{m}$
Binder	→	none
Flammability	→	flammable
Coating	→	high grade extruded silicon rubber

#### Chemical data

Resistant against hydraulic fluids, most acids, lubricating oils and fluids  
No affection after long-term trial at 25° C for 120 h in Mill-1-6082 and skydrole

### Thermal data

Continuous working temperature	→	260° C / 500° F
Peak-time temperature resistance	→	1000° C / 1832° F during affection of 15 - 30 min
Peak-time temperature resistance	→	1600° C / 2912° F during affection of 15 - 30 sec

Burning behaviour: 7 sec to extinction without afterglow (US Fed. Spec. CCT-191-B)

### Health hazards

Inhalation	→	acute irritation of mouth, nose and throat possible
Inhalation	→	chronic injuries none
Skin contact	→	mechanical irritation
Skin contact	→	chronic injuries none

### Applicable standards

Material passes SAE Aerospace Standard 1072 D for cable assemblies under stated pressure and flow. Material passes SAE Aerospace flame test 1055 B with temperature resistance at 1053° C during 15 min.

### Further data

The material is physiologically and toxically harmless. It is not biodegradable, however.

### Presentation

Diameter	→	10,0 to 128,0 mm
Wall thickness	→	3,0 to 5,0 mm according to design and diameter
Length	→	15 lin m or 30 lin m depending on design
Packing	→	common packaging
Storage	→	dry and in original packing