Technical Datasheet

AWSR2ri

Aramid Woven fabric Silicone Rubber coated 2 sides Red Iron oxide

AWSR2red is a Woven Aramid Fabric with a Silicone Rubber coating on both sides.
The silicone is an Iron Oxide Red variant which has a higher temperature resistance than any other pigment.

Aramid Woven material has a number of benefits:

- High temperature resistance
- High Tensile Strength

The silicone coating on both sides has a number of benefits;

- Woven structure is locked to prevent unraveling along edges
- Easy to clean surface on both sides
- Smooth surface on both sides
- Less capillary contamination of the woven fabric
- Better Stitching capabilities of the seam constructions
- High temperature resistance coating

Filcoflex B.V.
The Netherlands
Luxemburgstraat 3
5171 PK
Kaatsheuvel

Website : www.filcoflex.com
E-mail : info@filcoflex.com
Telephone : +31 (0) 416 764 764
Fax : +31 (0) 416 764 763

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Material Specifications

Material Name :	**AWSR2ri**	
Color :	Red (iron oxide)**	
Material Composition :	100% Aramid Woven fabric with Silicone Rubber coating on 2 sides	
Type of Material :	coated woven fabric on roll	
Width :	120 cm	± 1% DUB EN 1773
Roll length :	50 meter	
Thickness :	610 µm	
Coating :	scoured, both sides silicon iron oxide red coated – 400/200 gram/m2	
Total weight :	860 gram / m²	
Temperature resistance :	Aramid woven fabric	300 °C / 572 °F
	Silicone coating	260 °C / 500 °F

**AWSR2 is also available in other colors upon request, such as normal Red, Blue and Grey

Base Aramid Woven material

The aramid woven material before it is coated has the following characteristics;

Name :	Aramid / Kevlar	
Material :	100% Aramid fabric	
Polymer :	Twaron	
Color :	Yellow	
Air permeability :	<1 M^3 of air, per 1 M^2 @ 125 Pascal	
Weight Aramid fabric :	460 gram/m²	± 5% DIN EN 12127
Breaking Load :	14,000 Newton / 5cm	
Finish :	Scoured	
Weave style :	plain weave	
Construction :	warp 6,7 yarns/cm 3300 dtex	± 3% DIN EN 1049-2
	Weft 6 ,7 yarns/cm 3300 dtex	± 3% DIN EN 1049-2

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Certification

No food contact compliancy.
Not tested for its electrostatic properties.
Has not been explosion pressure tested.
Water- and Air- pressure tests can be performed upon request in diameters 200, 250, 300, 630, 900, 1400

Production Methods

Cutting : All Aramid parts are cut using a 1500 kW Laser Cutter, this burns and melt seals the edges of the woven fabric. This may leave some black discoloring on the edges.

Stitching : Stitching patterns are either Zig-Zag, or double row stitched.
Yarns are in Aramid

Seaming : Seams occasionally are also glued using various Silicone Adhesives

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