

SUSMIC® Electro-conductive Textiles

Preventing electrostatic induction inference and ensuring worker's safety!



Bekaert Toko Metal Fiber Co., Ltd.

SUSMIC® conductive clothing is a fabric that has been developed to prevent electrostatic induction interference and ensure the safety of workers using **SUSMIC®** stainless steel fibers when working on ultra-high-voltage transmission lines .

Since the conductive clothing uses a conductive material formed by processing **SUSMIC®** stainless steels into fibers, it has the high conductivity that is inherent to metal.

Further, owing to the multiplier effect of materials (i.e. polyester, acryl, cotton), which have been selected to suit the body, and the special technology for the application of **SUSMIC®** stainless steel fibers, the clothing has excellent durability and is as comfortable to wear as ordinary work clothes.

Configuration and Electrical Resistance

SUSMIC® conductive clothing is available in the following types and with the following electrical resistance (specifications).

Materials and Electrical resistance

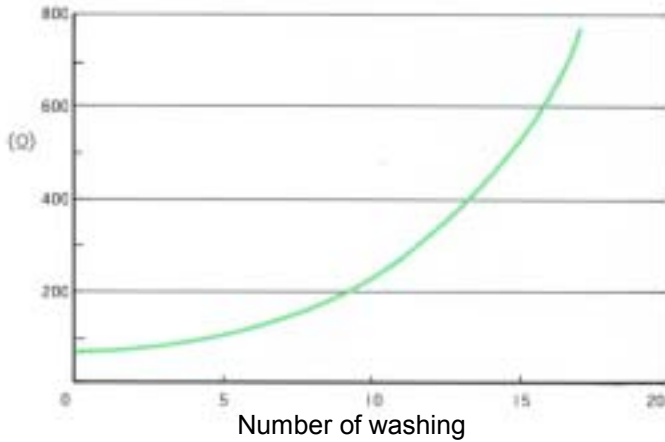
Product	Materials	Electrical resistance [Ohm]
Garment	Polyester+Susmic	Max. 100
Helmet cover	Polyester+Susmic	Max. 50
Socks	Acryl+cotton+Susmic	Max. 1000
Gloves	Polyester+Susmic	Max. 1000



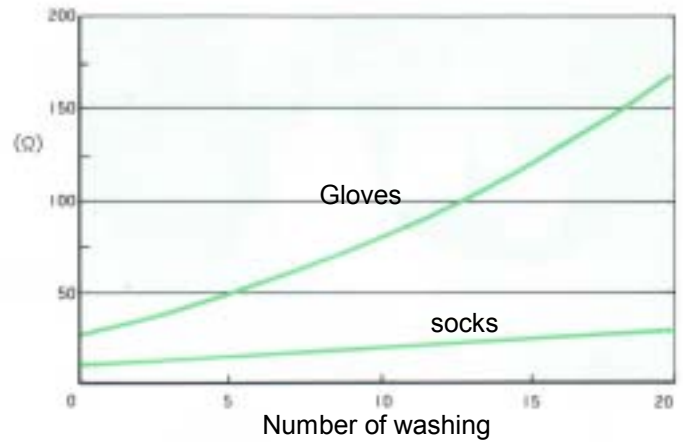
Durability of SUSMIC® Clothing

Electro-conductivity of SUSMIC® Cloth remains high over 10 times of washing.

Garment



Gloves & socks



Dimension of SUSMIC® conductive cloth [cm]

Jacket

Size	Length	Chest	Shoulder width	Sleeve length
3L	78	132	56	61
2L	76	122	50	60
L	74	112	46	58

Trousers

Size	Waist	Hips	In-steam length
3L	106	108	76
2L	100	105	75
L	88	103	74

Socks & gloves

Socks	Foot size	Leg size
	230	330
Gloves	Width	Length
	90	330

Instruction for use

1. Avoid wearing the conductive clothing against bare skin. Wear ordinary clothes under the conductive clothing.
2. Avoid wearing the conductive clothing during a thunderstorm; as there is an increased risk of being struck by lightning.
3. Never come directly into contact with any power supply when wearing the conductive clothing, as you are likely to receive an electric shock.

Example of criteria for performance Monitoring

Product	Item	Original performance	Inspection before wearing	Periodical inspection (once/year)
Garment	Shield efficiency	Min. 80%	-	Min. 80%
	Electrical resistance	Max. 100 Ω	Max. 1000 Ω	Nax. 1000 Ω
Helmet cover	Electrical resistance	Max. 50 Ω	Max. 50 Ω	Max. 50 Ω
Socks	Electrical resistance	Max. 1000 Ω	Max. 1000 Ω	-
Gloves	Electrical resistance	Max. 1000 Ω	Max. 1000 Ω	-

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