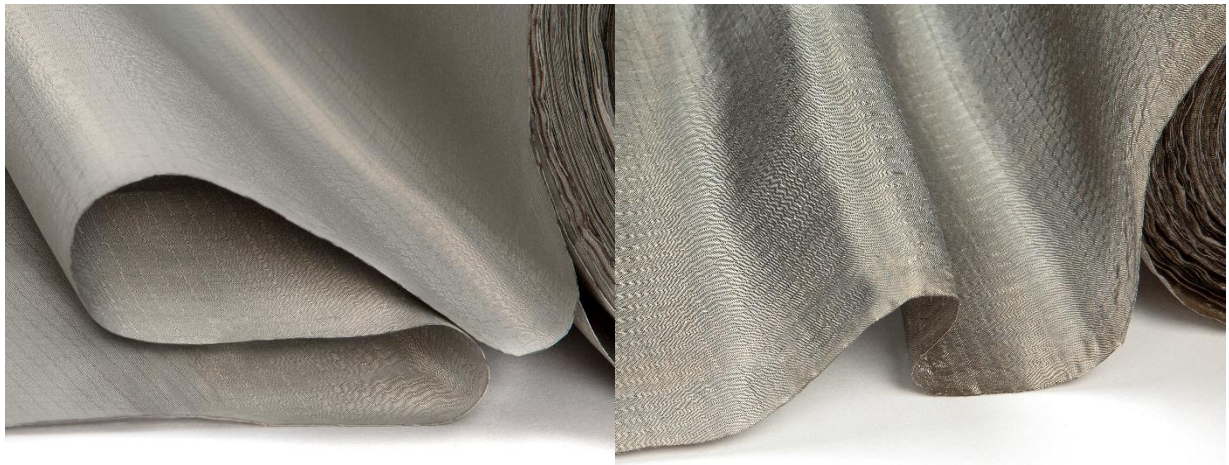




Shieldex® Infrared Protection



Shieldex textile solutions provide optimal protection for clothing (such as uniforms), equipment, aircrafts, vehicles, and satellites that need to remain invisible to thermal imaging cameras. Developed for the infrared range, Shieldex's textiles have been designed to camouflage exactly what should not be visible. The product Shieldex® Bremen RS UK IR is already being used successfully for camouflage and shielding people and objects in the medium and long-wave infrared radiation range (3.5 - 15 μm wavelength).

General Information

For the area of infrared radiation, two textiles have been developed that safely shield people and objects against infrared radiation.

Shieldex shielding materials are already used in customer products. Mainly for personal protection and concealment on thermal imaging cameras. Due to the flexible and textile structure, Shieldex materials are extremely lightweight.

Technical Specification Shieldex® Bremen UK

Shieldex® Bremen UK MIL IR is a pure silver-plated ripstop fabric with a pure silver content of approx. 17%. The shielding fabric is particularly suitable for the targeted shielding of infrared radiation. Shieldex® Bremen UK MIL IR has an uncalendared (UK) surface. Due to this nature of the material, the infrared rays are diverted and are therefore no longer visible on infrared cameras.

Description of material

Ag plated Nylon fabric

Shielding effectiveness

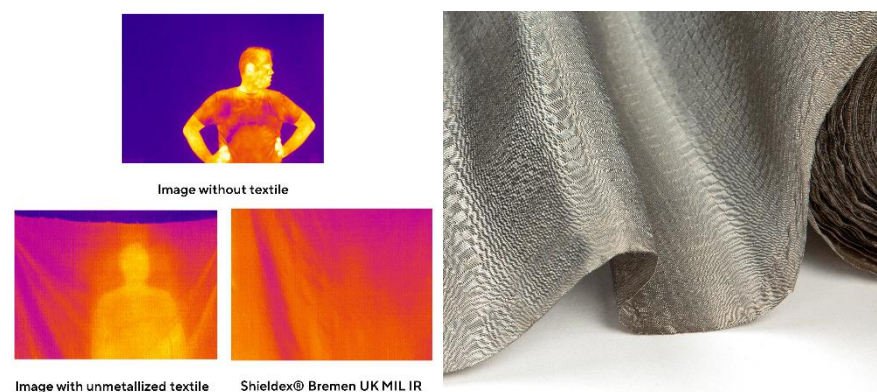
Average up to 60 dB from 0.3 - 10 GHz

Temperature range

- 30 °C to 90 °C

Electrical Surface Resistivity

Average < 0.5 Ω/\square



Technical Specification Shieldex® Zell RS CR

Extremely conductive fabric metallized with silver, copper, and tin and with a surface electrical resistance of $0.02 \Omega/\square$. The additional CR coating makes the conductive textile Shieldex® Zell RS CR compatible for cleanroom applications and additionally **shields against infrared radiation**.

Description of material

Ag/Cu/Sn plated Nylon fabric

Shielding effectiveness

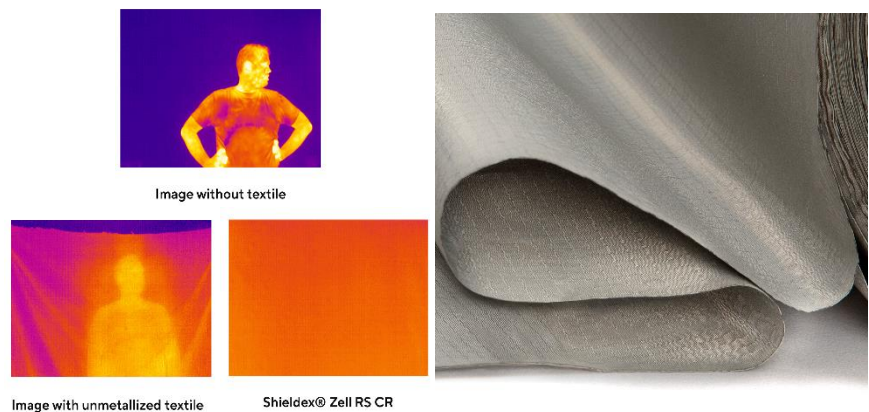
Average up to 67 dB from 0.02 - 14 GHz

Temperature range

- 30 °C to 90 °C

Electrical Surface Resistivity

Average $< 0.02 \Omega/\square$



Did we spark your interest ?

More information can be found on our detailed data sheets.
Please do not hesitate to contact us at any time.