

# RF GREEN

## SM-10YE - TECHNICAL DATA

2022/05



**Polyester mesh with maximum shielding for versatile applications (e.g. as base wallpaper). 98 dB. Interior. Width 35.43 in.**

### PROPERTIES

SM-10YE is a compact woven, metallized polyester netting for the large-scale shielding of high-frequency radiation (HF) and low-frequency electric fields (LF). Our highest shielding professional product for walls, ceilings and floors. Commercial product for data centers, laboratories, TEMPEST rooms, ... now available for private use.

### APPLICATION

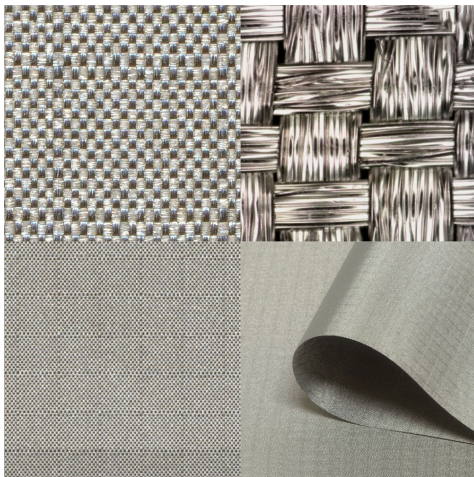
Interior for walls, ceilings and floors. As intermediate wallpaper, for drywall constructions, loosely laid, to shield devices, etc.

### PROCESSING

In case of processing as an intermediate wallpaper, for glueing we recommend a commercially available dispersion glue. The wall and the backside of the material are coated with a paint roller. Insert the material wet on wet, fix it manually (with disposable gloves) and use a gummed roller to get a crease-free surface. Work quickly and strip by strip only, so that the dispersion glue does not dry. A crease-free bonding is only possible on perfectly plane surfaces. Further the material can be laid loosely, e.g. under floor coverings or can be stapled, e.g. in drywall constructions. Always overlapp the single strips, so that they connect electrically for grounding.

### TECHNICAL DATA

- Width:** 35.43 in
- Length:** By the foot / 328.08 in roll
- Attenuation:** 98 dB
- Self-adhesive with electrically conductive glue
- Weight:** 90 g/m<sup>2</sup>
- Material thickness:** 0.003 in
- Color:** Gray / Brown
- Tensile strength:** 90 lbf
- Materials:** Polyester, copper, nickel
- Surface conductivity:** 0.01 ohm (square resistance)



### GROUNDING

This product with an electrically conductive surface has to be integrated into the functional- equipotential bonding (FEB). Please find suitable grounding accessories under "Grounding".

### SHIELDING ATTENUATION HF & LF

This product shields high frequency electromagnetic fields (HF). Unless otherwise stated, the indicated dB-values apply to 1 GHz. Measurement from 600 MHz to 40 GHz according to standards ASTM D4935-10 or IEEE Std 299-2006.

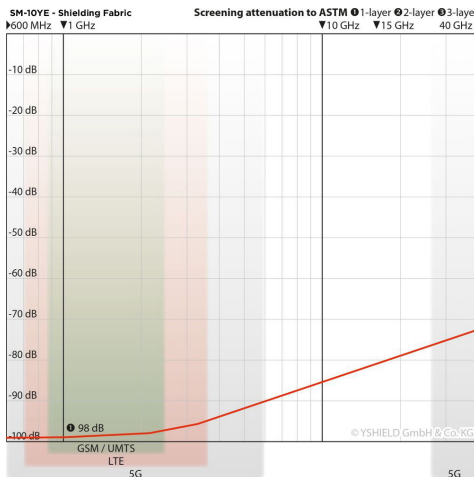
This product with an electrically conductive surface shields low-frequency alternating electric fields (LF).

### LABORATORY & EXPERT REPORT OF SHIELDING ATTENUATION UP TO 40 GHZ

We have already invested in our own professional EMV laboratory years ago. We not only use it to create our laboratory screening reports but also to check each batch daily. Additionally, we have all our products checked by an independent, well-respected expert. Double checked for twice the safety. Please find the reports above at the downloads.

### READY FOR 5G

Some companies offer "special" 5G-products. This products shields all 5G-frequencies, even without advertising this! Find two gray bars in all shielding diagrams with the 5G frequency spectrums FR1 (600 MHz - 6GHz) and FR2 (24 GHz - 40 GHz).



## SM-10YE RF Shielding Fabric