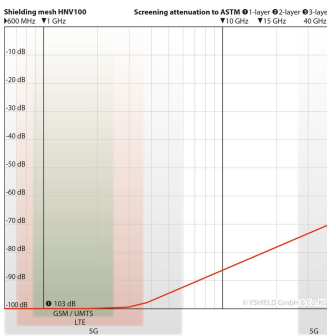
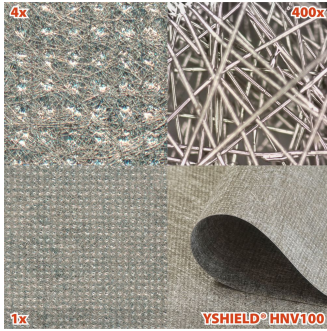


# YSHIELD® HNV100 | Shielding fleece | Width 90 cm | 1 meter

Polyester fleece with maximum shielding for versatile applications (e.g. drywall construction). 103 dB. Interior. Width 90 cm.



## Properties

HNV100 is a **thermally bonded fine metallized polyester fleece** for the 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 **overlap the single strips**, so that they connect electrically for grounding.

## Technical data

- **Width: 90 cm**
- **Length: By the meter / 100 m roll**
- **Attenuation: 103 dB**
- Weight: 70 g/m<sup>2</sup>
- Material thickness: 0.16 mm
- Color: Gray / Brown
- Tensile strength: 50 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).