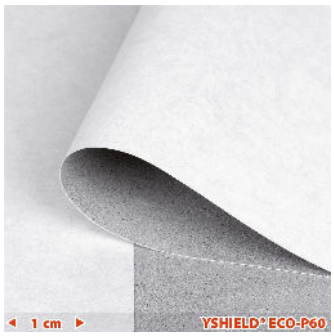
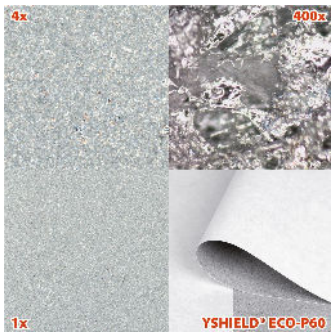
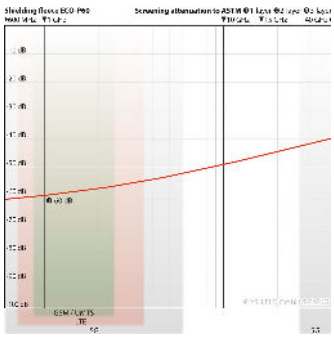
YSHIELD® ECO-P60 | Shielding fleece | Width 90 cm | 1 meter

Shielding fleece with maximum possible ecology for versatile applications. 60 dB. Interior. Width 90 cm. TÜV-SÜD tested.







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Properties

Currently our shielding product with the best price-performance ratio. ECO-P60 is a **one-side metallized cellulosic/polyester fleece** for the shielding of high frequency radiation (HF) and low-frequency electric fields (NF). **Our best priced standard product for walls, ceilings, and floors.**

Ecological coating process

All previous shielding products have been metallized "chemically", a lot of chemicals are needed for those metal coatings. **Our new coating process allows to apply the metal on the base material with only green electricity from wind power. Without chemicals or auxiliary materials, the ecological approach is extremely high.** The metal coating is not fully applied but spattered onto the material, which makes **products from the ECO-series highly vapour diffusible**.

TÜV-SÜD tested

Our shielding fleece is tested by the TÜV-SÜD. According to guideline TM-22 (version 08-2020) they are proofed for heavy metals, SVOC and emissions. All limit values of the tested parameters were complied with. **Please find the test report above at the downloads.**

Application

Only suitable for interior application as an **intermediate material** on walls and ceilings. Applicable for laying it loosely only if the wallpaper is protected against mechanical damage.

Processing

Underground: The underground needs to be clean, dry and free of water removable layers. Absorbent surfaces must be prepared with our primer GK5. **Application method with metallized side showing into the room:** The technically best solution, although the result is not as visually appealing. But afterwards, all sheets can easily be connected with grounding tape GSX and can then be grounded. Furthermore, the best solution with a removable primer – you can then remove the wallpaper without having metallized residues on the wall. **Application method with the white side showing into the room:** Visually the nicer solution, but the grounding tape can no longer be applied afterwards. If you prefer doing so, you need to apply the grounding tape GSX on the underground. After gluing, the metal-side should be contacted, we highly recommend tests with different glues. **Glue:** For heavy wallpapers. Successfully tested from Henkel Methylan: Spezial (Special), Vlies (Fleece), Raufaser (Ingrain wallpaper). **Edge on edge or overlapping:** To achieve the best shielding result, you should ideally glue the individual strips with an overlapping. The overlapping can be smoothed out extensively with a fine putty, then sanded. Alternatively, you could also glue edge on edge – as it's usually done with wallpapers – you'll have to accept minimal shielding losses for higher frequencies. **Attention:** Due to the thick metal layer, the fleece has sharp edges after cutting. Work with caution and wear protective gloves!

Technical data

- **Width: 90 cm**
- **Length: By the meter / 100 m roll**
- **Attenuation: 60 dB /** Surface conductivity: 0.02 ohm (square resistance)
- Weight: 150 g/m² / Material thickness: 0.2 mm
- Color: White / Silver
- Tensile strength: 4400 (crosswise) - 6800 (lenghtwise) N/m
- Materials: Zinc, cellulosic pulp, polyester fibers

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**.