Rev 1.1  
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# 70dB Shielding Fabric Aeronia-Shield® Ultra

Half Transparent Conductive RF Shielding-Fabric with high damping factor

## Highlights

- ◆ High damping factor of 70dB
- ◆ Non-oxidizing
- ◆ Excellent surface conductivity
- ◆ Half transparent
- ◆ Tearproof
- ◆ Lightweight

**AARONIA AG**  
WWW.AARONIA.DE

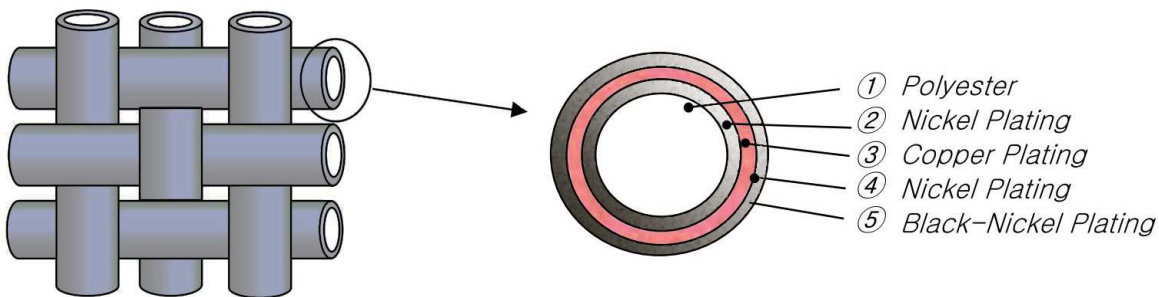
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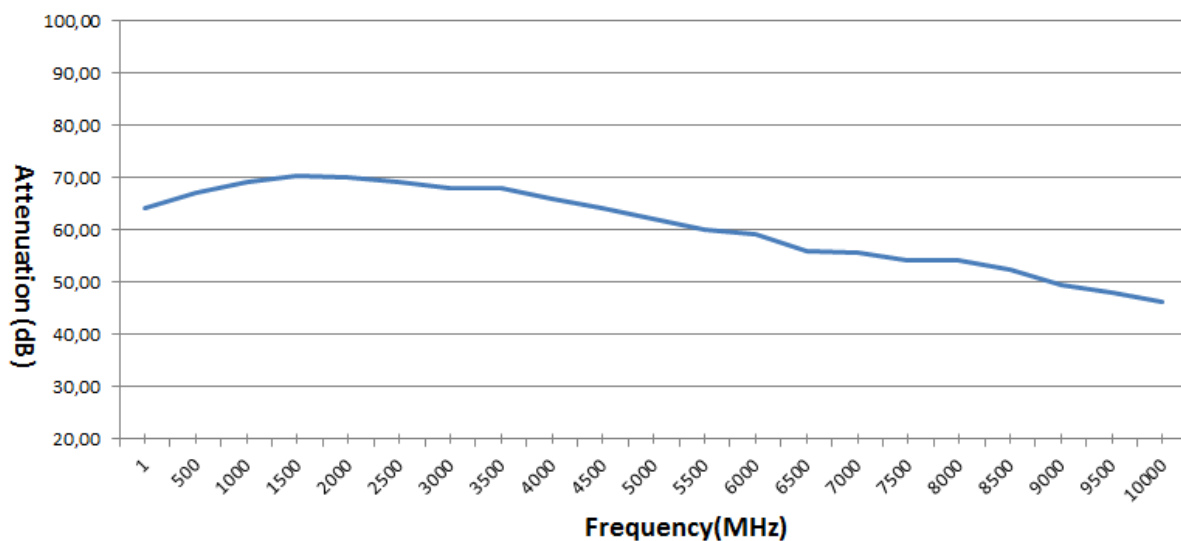
# Specifications

## Technical Details

- ◆ High damping factor of 65dB at 1MHz, 70dB at 1GHz and 46dB at 10GHz (ASTM D 4935-10 Method)
- ◆ Non-Oxidizing, outer layer of nickel for corrosion resistance
- ◆ Surface Resistivity  $\Omega/\text{sq}$ : less than 0.1
- ◆ Half transparent
- ◆ Rustproof
- ◆ Frostproof
- ◆ Tearproof
- ◆ Foldable
- ◆ Excellent surface conductivity
- ◆ Very easy to handle even for the novice
- ◆ Length per standard unit: 0,9m, 9m, (1m<sup>2</sup>, 10m<sup>2</sup>). Also available as cut good
- ◆ Lane width: approx. 1,1m
- ◆ Thickness: 0,085mm
- ◆ Mesh Count/inch: 200
- ◆ Colour: Grey
- ◆ Weight: approx. 34g/m<sup>2</sup>
- ◆ Material: High-performance copper/nickel/polyester compound



## Transmission damping chart 0,01-10GHz



Tests according to ASTM D-4935-10

# References

## Cross-Section of Aaronia Clients

### Government, Military, Aeronautic, Astronautic

- ◆ NATO, Belgium
- ◆ Department of Defense, USA
- ◆ Department of Defense, Australia
- ◆ Airbus, Germany
- ◆ Boeing, USA
- ◆ Bundeswehr, Germany
- ◆ NASA, USA
- ◆ Lockheed Martin, USA
- ◆ Lufthansa, Germany
- ◆ DLR, Germany
- ◆ Eurocontrol, Belgium
- ◆ EADS, Germany
- ◆ DEA, USA
- ◆ FBI, USA
- ◆ BKA, Germany
- ◆ Federal Police, Germany
- ◆ Ministry of Defense, Netherlands

### Research/Development, Science and Universities

- ◆ MIT - Physics Department, USA
- ◆ California State University, USA
- ◆ Indonesien Institute of Science, Indonesia
- ◆ Los Alamos National Laboratory, USA
- ◆ University of Bahrain, Bahrain
- ◆ University of Florida, USA
- ◆ University of Victoria, Canada
- ◆ University of Newcastle, United Kingdom
- ◆ University of Durham, United Kingdom
- ◆ University Strasbourg, France
- ◆ University of Sydney, Australia
- ◆ University of Athen, Greece
- ◆ University of Munich, Germany
- ◆ Technical University of Hamburg, Germany
- ◆ Max-Planck Institute for Radio Astronomy, Germany
- ◆ Max-Planck-Institute for Nuclear Physics, Germany
- ◆ Research Centre Karlsruhe, Germany

### Industry

- ◆ APPLE, USA
- ◆ IBM, Switzerland
- ◆ Intel, Germany
- ◆ Shell Oil Company, USA
- ◆ ATI, USA
- ◆ Microsoft, USA
- ◆ Motorola, Brazil
- ◆ Audi, Germany
- ◆ BMW, Germany
- ◆ Daimler, Germany
- ◆ Volkswagen, Germany
- ◆ BASF, Germany
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- ◆ Rohde & Schwarz, Germany
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Made in Germany



Aaronia AG, Gewerbegebiet Aaronia AG, DE-54597 Strickscheid, Germany  
Phone ++49(0)6556-93033, Fax ++49(0)6556-93034  
Email: mail@aaronia.de URL: www.aaronia.com

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