

## MATERIAL DESCRIPTION & PROPERTIES

**SD17** is an engineered cork and rubber composite material used in damping vibrations in sheet metal surfaces. It reduces the noise from the panel which can be caused by vibration traveling along a structural path called structure borne noise or by air borne noise exposed to the opposite side of the panel. This can represent considerable audible noise from the panel at resonance without this damping present.

Will be supplied with a self-adhesive backing for easier installation.

Both the material and the standard self adhesive are suitable for working in temperatures of -30°C to 100°C (-22°F to 212°F), with good metal adhesion properties.

Applications include:

- Vehicle body panels
- Ductwork, Heating, Ventilation and Air-Conditioning
- Sheet Metal Chutes and Hoppers
- Appliances Cabinets
- Metal Office Furniture
- Sinks and Bathtubs

### FEATURES

- Maximum damping efficiency over a broad range of temperatures and frequencies
- Non-hazardous
- Meets FMVSS302 fire resistance
- Wear-resistant
- Low water absorption
- Good dimensional stability
- Non brittle, long shelf-life
- Peel and Stick
- No mould growth

Standard Adhesive is Acrylic base in non-woven carrier,

Adhesion to rigid surfaces (steel), 15N/25mm, tested according with AFERA 4001.

Surface Density (kg/m <sup>2</sup> ) at 1,5mm <sup>1</sup>	1,7
Tensile Strength (MPa) <sup>2</sup>	2,3
Thermal Resistivity (m <sup>2</sup> K/W) <sup>3</sup>	5,6
Loss Factor at 125Hz, RT	0,15

<sup>(1)</sup> ASTM F1315

<sup>(2)</sup> ASTM F152

<sup>(3)</sup> ISO 1856

SD17 is free of:

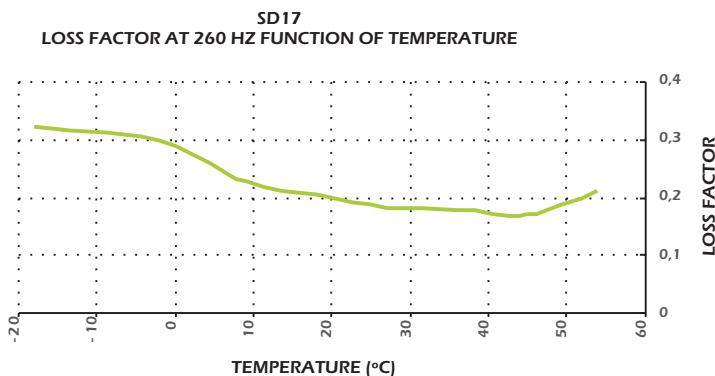
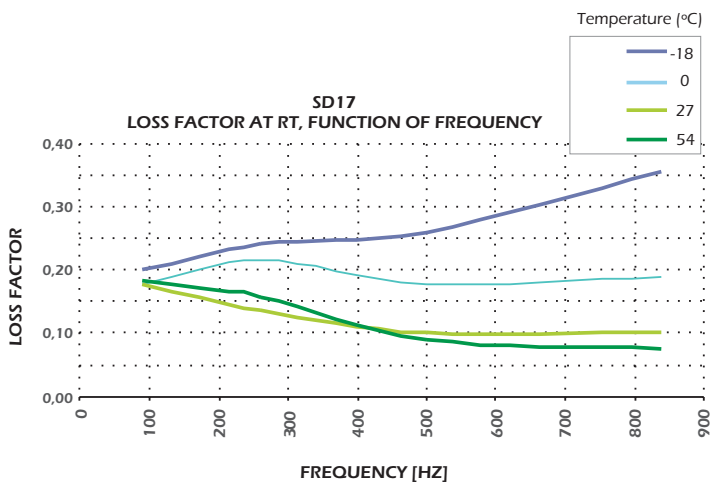
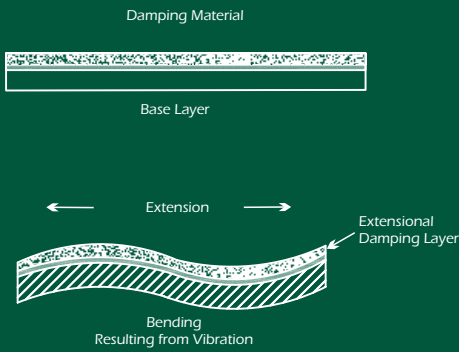
- PVC (Poly Vinyl Chloride)
- Heavy Metals (Pb, Cd, Hg and Cr (VI))
- Formaldehyde and

Comply with RoHS and ELV 2000/53/EC European Directives



## Free-layer damping

The vibrational energy is dissipated due to the extensional and compression of the damping material due to the vibrational stress of the base layer.



## Damping Performance

Loss factor measured according with test method specified in SAE J1637-2007 standard (Laboratory Measurements of the Composite Vibration Damping Properties of Materials on a Supporting steel bar).

SD17 3 mm sample, bonded to one side of a steel bar 200 mm length, 0,8mm thickness, 12,7 mm width.

SD17 is able to damp structures in a wide range of temperatures.

Check our Noise Reduction Simulator software on our website for a quick and comprehensive calculation of airborne sound isolation using ACM materials.

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