

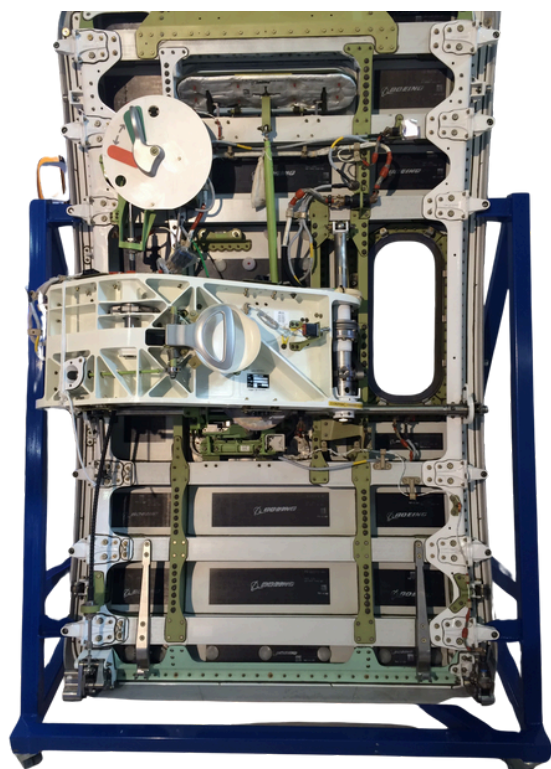
SMACSONIC®

Noise & Vibration Reduction Solution



SMACSONIC® is a structural damping material that reduces mechanical energy in aerostructures and mechanical parts.

Applied with adhesive, it forms a viscoelastic layer between the structure and a constraining layer, converting vibrations into heat.



Designed for any type of environment, it operates from -55°C to +70°C (-67°F to +158°F) with versions optimised for specific temperature ranges, and comes in various formats.

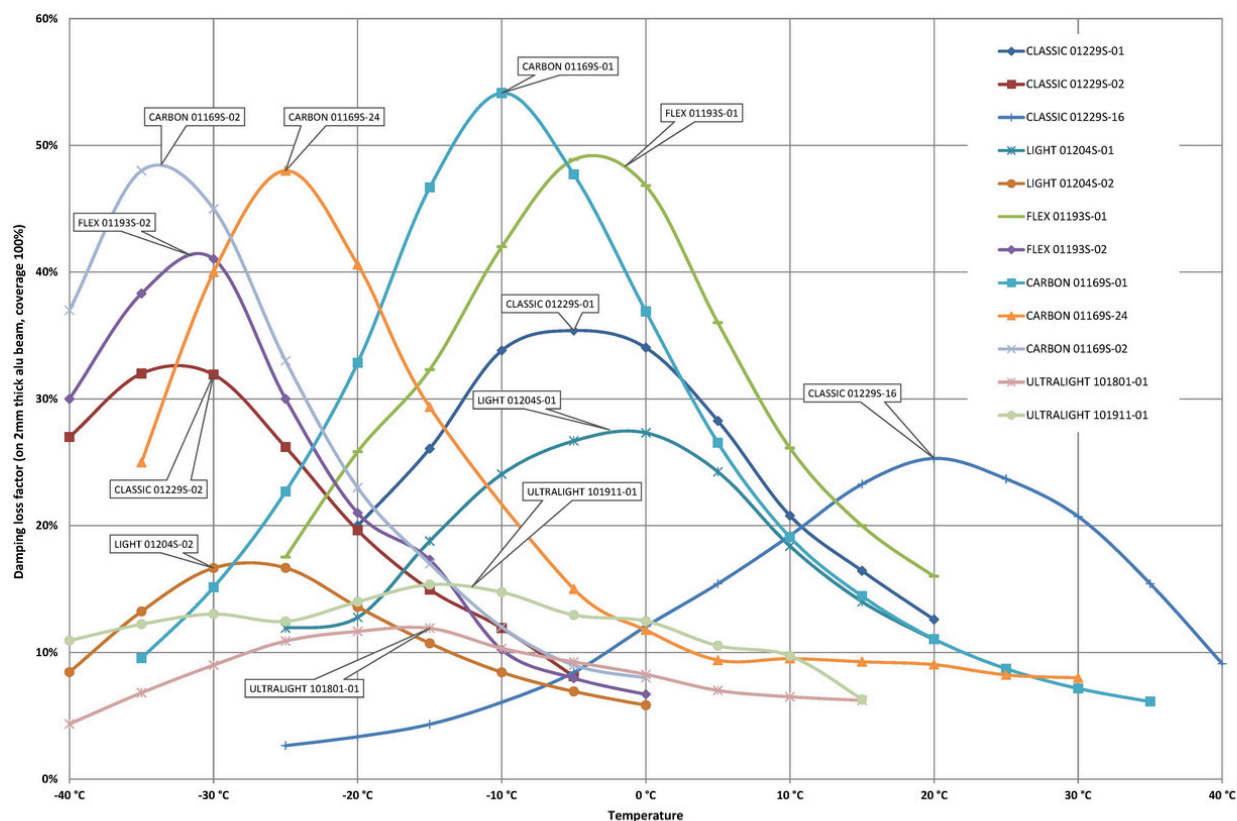
SMACSONIC® damping is effective in a wide frequency range from 100 Hz to 6 KHz. SMACSONIC® pass the fire and smoke tests in accordance with commercial aviation standards. SMACSONIC® is available with aluminium alloy or carbon composite constraining layers, offering flexibility in weight, stiffness, and type of supporting structure.

The material is available in sheets or in precut damping patches gathered in kits specific for an aircraft model.

- | | |
|---------------|-----------------------|
| • AIRBUS | • DASSAULT |
| • AIRBUS | • DASSAULT FALCON JET |
| • HELICOPTERS | • EMBRAER |
| • ANTONOV | • GULFSTREAM |
| • BOEING | • LEONARDO |
| • COMAC | • & subcontractors |

SMACSONIC Range

Damping Loss Factor vs Temperature



Product Range

Range	Construction		Physical properties	
	Product Manufacturing Code	Constraining layer	Surfacic mass	Optimal damping temp. range
ULTRALIGHT	101801-01	Aluminum	1,4 kg.m ² (0.29 psf)	-25°C to -5°C (-13°F to +23°F)
ULTRALIGHT	101911-01	Aluminum	1,7 kg.m ² (0.35 psf)	-25°C to -5°C (-13°F to +23°F)
LIGHT	012045-01	Aluminum	2,0 kg.m ² (0.41 psf)	-5°C to +20°C (+23°F to +68°F)
LIGHT	012045-02	Aluminum	1,9 kg.m ² (0.39 psf)	-40°C to -25°C (-40°F to -13°F)
FLEX	011935-01	Flexible Aluminum	4,4 kg.m ² (0.90 psf)	-5°C to +20°C (+23°F to +68°F)
FLEX	011935-02	Flexible Aluminum	4,4 kg.m ² (0.90 psf)	-40°C to -25°C (-40°F to -13°F)
CARBON	011695-01	CFRP	2,5 kg.m ² (0.51 psf)	-5°C to +20°C (+23°F to +68°F)
CARBON	011695-02	CFRP	2,5 kg.m ² (0.51 psf)	-35°C to -25°C (-31°F to -13°F)
CARBON	011695-24	CFRP	3,5 kg.m ² (0.72 psf)	-40°C to -35°C (-40°F to -31°F)
CLASSIC	012295-01	Aluminum	3,0 kg.m ² (0.61 psf)	-5°C to +20°C (+23°F to +68°F)
CLASSIC	012295-02	Aluminum	3,0 kg.m ² (0.61 psf)	-40°C to -25°C (-40°F tp -13°F)
CLASSIC	012295-16	Aluminum	3,0 kg.m ² (0.61 psf)	+10°C to +30°C (+50°F to +86°F)