

Product Description

ADC-1512 is a low surface weight, high-performing aircraft damping composite for structural applications. This composite is specifically engineered for fuselage damping at temperatures below -5°C.

TYPICAL PROPERTIES	ADC-1512
Nominal Thickness, inches	0.11
Nominal Weight, lb/ft ²	0.35
Optimal Temperature Performance Range, °C	-30° to -5°
Chemical Resistance, weight gain (%) after 24 hrs per ASTM D543	
Deionized Water	0.7
Skydrol® Hydraulic Fluid	12.2
Ardrox® AV 30 Corrosion Inhibitor	7.2
Flammability	
FAR 25.853(a) Appendix F Part I (a) (1) (ii) 12 sec.	Passes
FAR 25.856(a) Appendix F Part VI	Passes
Durability, RTCA DO-160G	
High Temperature 100 Hrs at 90°C	Survives
Temperature Variation, 100 cycles between -40° and 70°C	Survives

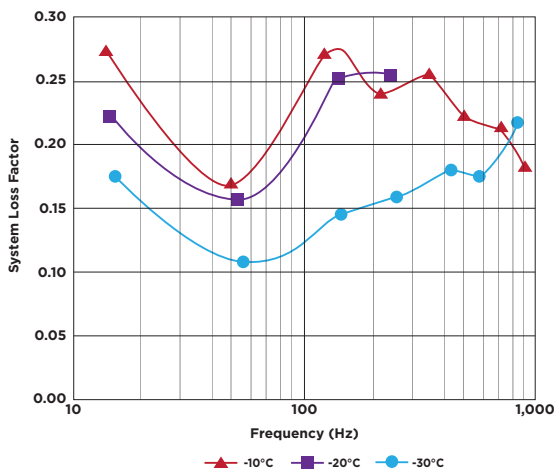
The above technical information and data should be considered representative or typical only and should not be used for specification purposes.

THERMAL CONDUCTIVITY, ASTM C518

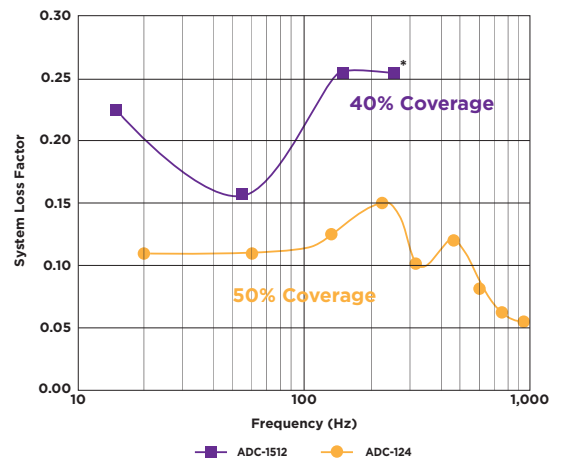
TEMPERATURE °C	K - value (W/m ² K)
-40	0.029
-30	0.033
-20	0.036
-10	0.039
0	0.042
10	0.045
20	0.049
30	0.052

Calculated values from linear regression of measured data between -5° and 40°C. Values between -10° and -40°C are extrapolated.

40% Coverage ADC-1512 on 0.060" thick 3"x40" Aluminum Bar



40% Coverage ADC-1512 and ADC-124 at -20°C on 0.060" thick 3"x40" Aluminum Bar



*System loss factor performance not determined at higher frequencies due to overdamped beam response.

Technical Information

The data listed in this data sheet are typical or average values based on tests conducted by independent laboratories or by the manufacturer. They are indicative only of the results obtained in such tests and should not be considered as guaranteed maximums or minimums. Materials must be tested under actual service to determine their suitability for a particular purpose.

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