PHYSICAL PROPERTIES OF ALUMINUM FOIL

	ALLOY AND TEMPER							
SPECIFIED	1145 and 1235		1100		3003		5052	
THICKNESS	0	H19	0	H19	0	H19	0	H19
Inch	ULTIMATE TENSILE STRENGTH, ksi							
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
0.0007-0.0015	14.0	20.0	15.5	24.0	19.0	27.5	31.0	43.0
0.0016-0.0025	14.0	20.0	15.5	24.0	19.0	27.5	31.0	42.0
0.0026-0.0040	14.0	20.0	15.5	24.0	19.0	27.5	31.0	41.0
0.0041-0.0059	14.0	20.0	15.5	24.0	19.0	27.5	31.0	36.0

Density Specific Gravity Melting Range Electrical Conductivity	2.70 (approx.) 1190-1215°F 59% IACS, vol.,				
	200% IACS (approx.) weight				
Thermal Conductivity					
Thermal Coefficient of Linear Expansion					
13.1 x	10^{-6} per °F from 68 ° to 212 °F				
Reflectivity for white light, Tungsten Filament Lamp					
Reflectivity for radiant heat; From source at 100 ° F95% (approx.)					
Emissivity, at 100°F					
Atomic Number					
Atomic Weight					
Valence					
Strongly Electropositive	1.66/v				
Specific Heat at 20 °C					
Boiling Point	-				
Temperature Coefficient of Resistance for Aluminum					
•	(Representative values per °C)				

Temperature °C	Coefficient
20	0.0040-0.0036
100	0.0031-0.0028

Low Temperature properties - Aluminum increases in Strength and ductility as temperature is lowered, even down to -320 °F.

All published densities are now reported to nearest 0.0005 lb/in for alloys having 99.35% min. aluminum. (The 0.0975 value is valid for active alloys containing 99.40% AL or more.) CGS unit = cal (cm) / (cm²)(°c)(sec.) English unit = BTU (ft) / (ft²)(°F)(hr) Multiply CGS units by 241.9 to convert to English units

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