

Material Designation	
EN	1050
UNS	A91050

Chemical Composition		
Mn	%	0.0 – 0.05
Fe	%	0.0 – 0.40
Cu	%	0.0 – 0.05
Mg	%	0.0 – 0.05
Si	%	0.0 – 0.25
Zn	%	0.0 – 0.07
Ti	%	0.0 – 0.05
Al	%	Balance

Typical Application
<ul style="list-style-type: none"> - Chemical process plant equipment - Food industry containers - Pyrotechnic powder - Architectural flashings - Lamp reflectors - Cable sheathing

Physical Properties		
Thermal Conductivity	222	W/(m-K)
Thermal Expansion	24 x 10 ⁻⁶	/K
Melting Point	650	°C
Density	2.71	g/cm ³
Elastic Modulus	71	GPa
* In H14 Condition		

Fabrication Properties	
Machining	Poor
Cold Working	Excellent
Brazability	Excellent
Soldering	Excellent
Hot-Dip Tinning	Excellent
Resistance Welding	Excellent

Corrosion Resistance
<ul style="list-style-type: none"> - Good resistance to corrosion, - Highly ductile - Highly reflective

Mechanical Properties		
Temper	H14	
Tensile Strength Rm	MPa	100
Elongation A50 mm	%	12
Hardness	HV	30
Proof Stress	MPa	85
Shear Strength	MPa	60
* In H14 Condition		

Special Characteristics
Aluminium alloy 1050 is a popular grade of aluminium for general sheet metal work where moderate strength is required. Alloy 1050 is known for its excellent corrosion resistance, high ductility and highly reflective finish.

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