

Data Sheet: Aluminium 3.3206

(Al-MgSi)

Alternative Designations

Standard	EN	ANSI/AA	UNS	AFNOR	SIS	UNE
Designation	EN-AW6060	AA6060	A96060	AGS	4140	L-3442

Details

This is a heat treatable alloy of aluminum with low strength. It has good resistance to corrosion, good weldability and very suitable for cold forming. It is applied in the production of lightings, furniture, flooring and other engineering applications with no special strength requirement.

Key Features

Low strength • Heat treatable • Good weldability • Good corrosion resistance

Chemical Composition

Element	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
Percentage	0.3 – 0.6	0.1 – 0.3	0.10	0.10	0.35– 0.6	Max 0.05	Max 0.15	Max 0.10

Mechanical Properties

Property	Yield strength [MPa]	Ultimate tensile strength [MPa]	Elongation [%]	Hardness
Value	60	120	16	45

Physical Properties

Property	Value
Density [g/cm ³]	2.7
Module of elasticity [GPa]	~ 70
Electrical conductivity [m/Ω · mm ²]	28 - 34
Coefficient of thermal expansion [K ⁻¹ · 10 ⁻⁶]	23.4
Thermal conductivity [W/m · K]	200 - 220
Specific heat capacity [J/kg · K]	900

Reference

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