

DESCRIPTION

Aluminium alloy **AA-1100** is a popular grade of Aluminium for general purpose sheet metal works where moderate strength is the requirement. **AA-1100** is also known for its excellent corrosion resistance, high ductility and reflective finish.

APPLICATIONS

AA-1100 is typically used in:

- General sheet metal works
- Lightly stressed panels
- Architectural flashings
- Name/number plates
- Heat exchangers
- Food containers
- Light reflectors

Please note that the Mechanical Properties shown are for **H14** temper*

***H 14** – Most common temper, is work hardened by rolling to half hard, not annealed after rolling.

CHEMICAL COMPOSITION

Element	Composition %
Silicon + Iron (Si+Fe)	1.0
Copper (Cu)	0.05 – 0.20
Manganese (Mn)	0.0 - 0.50
Zinc (Zn)	0.0-0.10
Others (Total)	0.15
Other (Each)	0.05
Aluminium (Al)	Balance

SUPPLIED FORMS

At **Dinco Trading LLC** we stock/offer Aluminium Alloy **AA-1100** in the form of - Flat sheet, plates in 0.4 mm to 50.0 mm thick.

MECHANICAL PROPERTIES

Property	Value
Proof Stress	75 Min MPa
Tensile Strength	110 - 125 MPa
Elongation at 50 mm	5 Min %
Hardness Brinell	32 HB

WELDABILITY

Weldability-Gas: Excellent
Weldability-Arc: Excellent
Brazeability: Excellent
Weldability-Resistance: Excellent

FABRICATION

Machinability: Poor
Workability–Cold: Very good

GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.71 g/cm ³
Melting Point	643 - 657°C
Thermal Expansion	23.6 x10-6 /K
Modulus of Elasticity	68 GPa
Thermal Conductivity	222 W/m.K
Electrical Resistivity	0.292 x10-6 Ω .m

SIZES RANGE FOR AA 1100-H14

We stock Aluminium Alloy **AA-1100 H14** at our warehouses in Dubai and Sharjah.
Please contact us on sales@dinco.ae with your inquiries or call **04-3312182**, or visit: www.dinco.ae