

# Aluminium Alloy 1100 – H14 Data Sheet



## DESCRIPTION

Aluminium Alloy 1100 is the most 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 plates
- Heat exchangers
- Food containers
- Light reflectors

Please note that Mechanical Properties shown are for H-14 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 - 0.05
Zinc (Zn)	0.0 - 0.10
Others (Total)	0.15
Other (Each)	0.05
Aluminium (Al)	Balance

## SIZES RANGE FOR AA 1100-H 14

We stock Aluminium Alloy 1100 H14 at our warehouses in Dubai & Sharjah. Please contact us on sales@dinco.ae with your inquiries or call: 04-3312182 or visit [www.dinco.ae](http://www.dinco.ae)

## SUPPLIED FORMS

At **Dinco Trading Co** we stock Aluminium Alloy 1100 in the form of Plain/Stucco embossed in sheets as well as coils.

## MECHANICAL PROPERTIES

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

## WELDABILITY

Weldability – Gas: Excellent

Weldability – Arc: Excellent

Brazability: Excellent

Weldability – Resistance: Excellent

## FABRICATION

Machinability: Poor

Workability – Cold: Excellent

## GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.71 g/cm <sup>3</sup>
Melting Point	643 - 657 °C
Thermal Expansion	23.6 ×10 <sup>-6</sup> /K
Modulus of Elasticity	69GPa
Thermal Conductivity	222 W/m.K
Electrical Resistivity	0.029 ×10 <sup>-6</sup> Ω.m