

# Aluminium Alloy AA 3003 - H14 Data Sheet



## DESCRIPTION

Aluminium Alloy **AA-3003** is a medium strength alloy with a very good resistance to atmospheric corrosion and equally good weldability as well as good cold formability. It has better mechanical properties, especially at elevated temperatures in comparison to 1000 series alloys.

## APPLICATIONS

**AA-3003** is typically used in:

- General sheet metal works requiring greater strength.
- Metal jacketing
- Acoustic ceilings
- Insulation panels
- Profiled building sheets
- Storage tanks
- Motor vehicle radiators
- Food & chemical handling equipment
- Packaging containers, closures and cladding

Please note that Mechanical Properties shown are for **H-14** temper\*

\***H 14** – Most common temper is work hardened

## CHEMICAL COMPOSITION

Element	Composition %
Manganese (Mn)	1.10 – 1.50
Iron (Fe)	0.00 – 0.70
Copper (Cu)	0.05 – 0.20
Magnesium (Mg)	0.00 – 0.05
Silicon (Si)	0.00 – 0.60
Zinc (Zn)	0.00 – 0.10
Others (Total)	0.00 – 0.15
Other (Each)	0.00 – 0.05
Aluminium (Al)	Balance

## SUPPLIED FORMS

At **Dinco Trading LLC** we stock/offer Aluminium Alloy **AA-3003-H14** in the form of – **Plain** and **Stucco** embossed sheets.

## MECHANICAL PROPERTIES

Property	Value
Proof Stress	50 Min Mpa
Tensile Strength	140-180 Mpa
Elongation at 50 mm	5% Min
Hardness Brinell	28 HB

## WELDABILITY

Weldability - Gas: Very Good  
Weldability - Arc: Very Good  
Brazability: Excellent  
Weldability - Resistance: Good

## FABRICATION

Machinability: Average  
Workability – Cold: Very Good

## GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.73 g/cm <sup>3</sup>
Melting Point	655 °C
Thermal Expansion	23.1 x 10 <sup>-6</sup> /K
Modulus of Elasticity	69.5 GPa
Thermal Conductivity	190 W/m.K
Electrical Resistivity	0.034 x 10 <sup>-6</sup> Ω .m

## SIZES RANGE FOR AA 3003-H14

We stock Aluminium Alloy **AA-3003 H14** at our warehouses in Dubai & Sharjah. Please contact us on [sales@dinco.ae](mailto:sales@dinco.ae) with your inquiries or call: **04-3312182** or visit [www.dinco.ae](http://www.dinco.ae)