

DESCRIPTION

Aluminium alloy **AA-5052-H32** has very good corrosion resistance properties to seawater, marine and industrial atmosphere. With very good weldability and good cold formability, it has a slightly higher strength than AA5251 and a medium to high fatigue strength.

APPLICATIONS

AA-5052 is typically used in:

- Sheet Metal Works
- Architectural Paneling
- Desalination unit
- Name plate and Road sign
- Pressure vessels
- Fuel Tank
- Welded tubes

Please note that the Mechanical Properties shown are for **H32** temper*

***H32** – Most common temper for 5052, is work hardened by rolling and then stabilized by low temperature heat treatment to quarter hard.

CHEMICAL COMPOSITION

Element	Composition %
Magnesium (Mg)	2.20 – 2.80
Chromium (Cr)	0.15 - 0.35
Iron (Fe)	0.00 - 0.40
Silicon (Si)	0.00 - 0.25
Others (Total)	0.00 - 0.15
Copper (Cu)	0.00 - 0.15
Zinc (Zn)	0.00 - 0.15
Manganese (Mn)	0.00 – 0.10
Other (Each)	0.00 - 0.15
Aluminium (Al)	Balance

SUPPLIED FORMS

At **Dinco Trading LLC** we stock/offer Aluminium Alloy **AA5052-H32** in the form of - Flat sheets/plates

MECHANICAL PROPERTIES

Property	Value
Proof Stress	130 Min MPa
Tensile Strength	210 - 260 MPa
Elongation at 50 mm	12 Min %
Hardness Brinell	61 HB

WELDABILITY

Weldability-Gas: Good
Weldability-Arc: Very good
Brazeability: Acceptable
Weldability-Resistance: Very good

FABRICATION

Machinability: Acceptable
Workability–Cold: Good

GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.68 g/cm ³
Melting Point	605 °C
Thermal Expansion	23.7 x10-6 /K
Modulus of Elasticity	70 GPa
Thermal Conductivity	138 W/m.K
Electrical Resistivity	0.0495 x10-6 Ω .m

SIZES RANGE FOR AA 5052-H32

We stock **AA5052H32** 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