

DESCRIPTION

Aluminium Alloy 5005 is the most suitable grade of Aluminium for anodizing. AA 5005 is a medium strength alloy with very good resistance to atmospheric corrosion and very good weldability that is highly suitable for decorative anodizing. PLEASE NOTE THAT WHILST ALLOY 5005 IS SUITABLE FOR ANODIZING, STREAKS CAN OCCUR - IF THE FINISH YOU ARE SEEKING IS CRITICAL PLEASE SPECIFY 'SPECIAL ANODIZING QUALITY' AT TIME OF ORDER.

APPLICATIONS

AA-5005 is typically used in:

- Manufacture of appliances, small boats
- Signage, Road Signs & Name Plates
- Food & Chemical Equipment
- Anodized Parts
- Packaging
- Architectural components
- Furniture

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

CHEMICAL COMPOSITION

Element	Composition %
Magnesium(Mg)	0.50 – 1.10
Iron (Fe)	0.0 – 0.70
Silicon (Si)	0.0 - 0.30
Zinc (Zn)	0.0 - 0.25
Manganese (Mn)	0.0 – 0.20
Copper (Cu)	0.0 – 0.20
Chromium (Cr)	0.0 – 0.10
Others (Total)	0.0 – 0.15
Other (Each)	0.0 - 0.05
Aluminium (Al)	Balance

SUPPLIED FORMS

At **Dinco Trading Co** we stock Aluminium Alloy 5005 in the form of plain sheets

MECHANICAL PROPERTIES

Property	Value
Proof Stress	110 Min MPa
Tensile Strength	145 - 185 MPa
Elongation at 50 mm	5 Min %
Hardness Brinell	47 HB

WELDABILITY

Weldability – Gas: Very good
Weldability – Arc: Very good
Brazeability: Good
Weldability – Resistance: Very good

FABRICATION

Machinability: Fair
Workability – Cold: Very good

GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.70 g/cm ³
Melting Point	655 °C
Thermal Expansion	23.5 ×10 ⁻⁶ /K
Modulus of Elasticity	69.5 GPa
Thermal Conductivity	201 W/m.K
Electrical Resistivity	0.033 ×10 ⁻⁶ Ω.m

SIZES RANGE FOR AA5005-H 14

We stock Aluminium Alloy 5005 H14 at our warehouse in the UAE.

Please contact us on sales@dinco.ae with your inquiries or call: 06-5432452