



DESCRIPTION	Product Pictures
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Aluminium alloy 1050 is a popular grade of aluminium for general sheet metal work where moderate strength is required.
Alloy 1050 is known for its excellent corrosion resistance, high ductility and highly reflective finish..



SUPPLIED FORMS

Plain Sheets - Coils - Discs - Hemi Spherical - foil

APPLICATIONS

- 1050 A is typically used in: General sheet metal works requiring greater strength.
- Chemical Process Plant Equipment
 - Pyrotechnic Powder
 - Cable Cheathing
 - Lamp Reflectors
 - Food industry Container (utensils)
 - Architectural Flashing
 - Steel Making Ind. (Spherical Shape)

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.

MECHANICAL PROPERTIES (H-14)	
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Property	Value
Proof Stress	85 Min Mpa
Tensile Strength	105-145 Mpa
Elongation at 50 mm	12% Min
Hardness Brinell	34 HB

WELDABILITY

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

GENERIC PHYSICAL PROPERTIES	
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Property	Value
Density	2.71 g/cm³
Melting Point	650 °C
Thermal Expansion	24x 10⁻⁶/K
Modulus of Elasticity	71 GPa
Thermal Conductivity	222 W/m.K
Electrical Resistivity	0.0282 x 10⁻⁶ Ω .m

FABRICATION

Workability–Cold:-Excellent Machinability: Poor

SIZES RANGE FOR AA 3003-H14	
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Sheet length	40 - 600 cm
Sheet width	30 - 152 cm
sheet / coil/ Disc thickness	0.45 - 4.5 mm
coil wieght	Max 6.00 Ton
Coil width	1600 cm or 1100 cm

CHEMICAL COMPOSITION	
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Element	Composition %
Manganese (Mn)	0.0 – 0.05
Iron (Fe)	0.00 – 0.40
Copper (Cu)	0.00 – 0.05
Magnesium (Mg)	0.00 – 0.05
Silicon (Si)	0.00 – 0.25
Zinc (Zn)	0.00 – 0.07
Titanium	0.00 - 0.05
Other (Each)	0.00 – 0.03
Aluminium (Al)	Balance

We stock ECW's Products in factories warehouses Located in Alexandria and Cairo

Please contact us on **info@Egyptiancopperworks.com**
Whats App +20100
<http://www.Egyptiancopperworks.com>

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