ALUMINIUM

1050S - H14/H24



1050S - H14/H24

Aluminium 1050 is a commercially pure wrought aluminium alloy. It is often chosen for its combination of good electrical conductivity, workability, and corrosion resistance. It's a versatile material used across various industries, especially where moderate strength and high formability are desired. The terms H14 and H24 refer to the temper or hardness of the aluminium alloy.

KEY FEATURES

- Excellent formability
- Good machinability
- Excellent corrosion resistance
- Good weldability using various methods
- High thermal conductivity

CHEMICAL PROPERTIES									
Aluminium (Al)	Iron (Fe)	Zinc (Zn)	Silicone (Si)	Magnesium (Mg)	Manganese (Mn)	Titanium (Ti)	Copper (Cu)		
99.5%	0.4%	0.3%	0.25%	0.05%	0.05%	0.05%	0.05%		

MECHANICAL PROPERTIES					
Tensile strength (N/mm²)	60-95				
Yield strength (N/mm²)	20-45				
Elongation (% at break)	25-35				
Shear strength (N/mm²)	70				
Hardness - Brinell (HB) max	22-32				

PHYSICAL PROPERTIES						
Density (kg/m³)	271					
Modulus of elasticity (Gp	69					
Manage of Circles Andrew	0-100°C (µm/m/°C)	23.5				
Mean coefficient of	0-350°C (µm/m/°C)	24.7				
thermal expansion	0-538°C (µm/m/°C)	25.9				
Thermal	at 100°C (W/m.K)	229				
conductivity	at 500°C (W/m.K)	235				
Specific Heat 0-100°C (J	90					
Electrical conductivity (I	59					
Melting point (°C)	650					

MARKET SECTORS



Food & Beverage Industry

Packaging, foil, containers



Electrical Industry

Busbars, wiring, electrical components, capacitors

Radiator cores, engine components, trim parts



Machine parts, fasteners,



Automotive Industry

·



Roofing sheets, building facades



Kitchen Equipment

Kitchen utensils, cookware, appliances



Tel: +44 (0)1204 368600 Email: sales@steel-dynamics.co.uk Visit our website: www.steel-dynamics.co.uk