MACSTEEL®

Data Sheet

ALUMINIUM | 1050 (NON HEAT-TREATABLE)

Commercial-Purity Alminium

Chemical composition

%Cu	%Si	%Fe	%Mn	%Mg	%Zn	%Ti	% Other Elements	
0.05	0.25	0.40	0.05	0.05	0.07	0.05	0.03 each	- total

Mechanical properties

Temper	0.2% Proof Stress (MPa)	Tensile (MPa)	% Elongation in 50mm
0	20	65 - 95	20
H14	85	105 - 145	5

Outstanding Characteristics

Corrosion resistance:	Very good
Weldability:	Very good
Formability:	Very good
Anodizing:	Very good
Brazeability:	Excellent

Typical Uses

General sheet metal work, automotive industry, chemical processing plant equipment, pharmaceutical industry, kitchenware, packaging, architecture, appliances, panelling, electrical devices, boiler making.

Typical Physical Properties

Density	2.71g/cm^3
Modulus of Elasticity	69GPa
Modulus of Rigidity	26.5GPa
Melting Range	640-660°C
Specific heat between 0-100°C (273-373 K)	1.01J/g°C
Co-efficient of linear expansion between 20-200°C (293-473 K)	23.5 x 10^{-6}/°C
Thermal Conductivity at 100°C (373 K)	220W / m°C
Resistivity at 20°C (293 K)	0.028 x 10^{-6}Ωm

Standard Commodities

Plate, sheet, coil, treadplate.