



# HULAMIN

## ROLLED PRODUCTS

### 1050 Painted Data Sheet

This is a common alloy with moderate strength.

Material can be supplied in the mill, painted and stucco embossed finishes.

### Chemical Composition

(in weight %)

%	Si	Fe	Cu	Mn	Mg	Zn	Others Each		Al
							Each	Total	
min	-	-	-	-	-	-			99.50
max	0.25	0.4	0.05	0.05	0.05	0.05	0.05	-	

### Mechanical Properties

(in weight %)

Temper	Proof (MPa)	UTS (MPa)	% Elongation	Bend Radius	
	(minimum)		(minimum)	(90° bend)	(180° bend)
H42	93	102 - 122	7%	0 t	½T

### Physical Properties

Property Value Unit	Value	Unit
Density at 20°C	2.705	g/cm <sup>3</sup>
Melting Range	640 - 655	°C
Thermal Capacity	920	J / kg°C
Thermal Conductivity	225 - 230	W / m°C
Thermal Expansion	23.6 x 10 <sup>-6</sup>	/ °C
Resistivity at 20°C	29	nΩm
Modulus of Elasticity	69	GPa
Modulus of Rigidity	26	GPa

#### Corrosion resistance

Excellent corrosion resistance

#### Surface Treatment

Suitable for coil coating, powder - and spray coating and excellent anodizing quality.

#### Formability

Good formability, deep drawing and bending properties.

#### Weldability

This product can be welded by MIG, TIG, LASER and high frequency methods. This alloy is Brazeable.

#### Applications

- General engineering products requiring moderate strength.
- Overhead conductors
- Domestic hollowware
- Foil