



HULAMIN

ROLLED PRODUCTS

5052 Painted Data Sheet

This is a common alloy with high strength.

(Note: This alloy can be substituted with 5754 with similar mechanical strength and formability.)

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	-	-	-	-	-	-			Bal
max	0.25	0.4	0.10	0.10	2.2-2.8	0.1	0.05	0.15	

Mechanical Properties

(in weight %)

Temper	Proof (MPa)	UTS (MPa)	% Elongation	Bend Radius (gauge related)	
	(minimum)		(minimum)	(90° bend)	(180° bend)
H42	130	205 - 260	5%	0T	½T

Physical Properties

Property Value Unit	Value	Unit
Density at 20°C	2.68	g/cm ³
Melting Range	6405 - 650	°C
Thermal Capacity	970	J / kg°C
Thermal Conductivity	138	W / m°C
Thermal Expansion	23.8 x 10 ⁻⁶	/ °C
Resistivity at 20°C	50	nΩm
Modulus of Elasticity	70	GPa
Modulus of Rigidity	27	GPa

Corrosion resistance

Excellent corrosion resistance.

Surface Treatment

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

Formability

Good formability.

Weldability

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

Applications

- General engineering products requiring high strength.
- Marine structures
- Building industry
- Foil