



HULAMIN

ROLLED PRODUCTS

5083 Data Sheet

Chemical Composition

(in weight %)

%	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others		Al
									Each	Total	
min	-	-	-	0.40	4.00	0.05	-	-			Bal
max	0.40	0.40	0.10	1.00	4.90	0.25	0.25	0.25	0.05	0.15	

Mechanical Properties

(in weight %)

Temper	Proof Stress (MPa)	Tensile Strength (MPa)	Min. % Elongation	Bend Radius
H34	250 min	350 min	6%	3.5 x t for t up to 6 mm
H32	215 min	305 - 380	8%	2.5 x t for t up to 6 mm
H116 & H321	215 min	305 min	10%	2.5 x t for t up to 6mm
H111	125 min	275 min	15%	1.5 x t for t up to 6 mm

Physical Properties

Property	Value	Unit
Density	2.65	g/cm ³
Thermal Conductivity at 25°C	117	W/m.K
Electrical Conductivity	17	S/m
Modulus of Elasticity	71	GPa
Coefficient of linear expansion	23.8 x 10 ⁻⁶	/°C
Melting Range	580 - 640	°C

Deep Drawing

Very good

Weldability (TIG/MIG)

Very good

Recommended filler alloy for TIG/MIG

5183 also 5356