

5052 H38 Aluminium Sheet

Data Sheet

Chemical Composition

Alloy designation	Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	
										each	total
5052	Rem	≤0.25%	≤0.4%	≤0.4%	≤0.1%	2.2%-2.8%	0.15%-0.35%	≤0.1%	--	≤0.05%	≤0.15%

Mechanical Property

Alloy	Temper	Tensile Strength MPa		Yield strength (0.2% offset), MPa		Elongation, Min, %		Bend Diameter Factor, N
		min	max	min	max	In 50mm	in 5X diameter	
5052	H38	270	--	220	--	2-4	--	--

Physical Properties

Alloy Temper	Density	Melting Temperature	Coefficient of thermal expansion	Electrical Conductivity at 20°C -equal volume	Thermal Conductivity at 25°C
5052	2.68g/cm ³	607-650°C	23.75µm/m. °C	35%IACS	138w/m. °C

Application

5052 is a non-heat treatable alloy that has medium static strength with good ductility and very good corrosion resistance in marine atmosphere. It is commonly used for utility sheet, signs, road vehicles, welded tanks and other applications requiring resistance to marine corrosion.

