ALUMINIUM

5754 - H111



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Aluminium alloy 5754 is a non-heat treatable alloy known for its excellent corrosion resistance, good weldability and strength compared to other 5000series alloys. While it's not the strongest alloy, it provides adequate strength for many applications while retaining flexibility. The 'H111' refers to its temper designation, indicating that the metal has been strain-hardened only to the point of providing it with the desired level of strength after forming.

KEY FEATURES

- Excellent weldability with all methods
- Excellent resistance to seawater
- Excellent corrosion resistance
- Good formability
- Suitable for complex shapes

CHEMICAL PROPERTIES									
Magnesium (Mg)	Manganese (Mn)	Silicone (Si)	Iron (Fe)	Chromium (Cr)	Zinc (Zn)	Copper (Cu)	Aluminium (Al)		
2.6-3.6%	0.5%	0.4%	0.4%	0.3%	0.2%	0.1%	rest		

MECHANICAL PROPERT	IES
Tensile strength (N/mm²)	220-250
Yield strength (N/mm²)	80-130
Elongation (% at break)	12-20
Proof stress (MPa)	185-245
Hardness - Brinell (HB) max	60

PHYSICAL PROPERTIES						
Density (kg/m³)	267					
Modulus of elasticity (Gp	70					
N4 65: 1 6	0-100°C (µm/m/°C)	23.5				
Mean coefficient of	0-350°C (µm/m/°C)	24.7				
thermal expansion	0-538°C (µm/m/°C)	25.6				
Thermal	at 100°C (W/m.K)	135				
conductivity	at 500°C (W/m.K)	155				
Specific Heat 0-100°C (J	88					
Electrical conductivity (I	31-33					
Melting point (°C)	625					

MARKET SECTORS



Hulls, decks, superstructures



Body panels, chassis parts, suspension components



Machinery, equipment, vessels, containers, tanks



Food & Beverage Industry



Processing equipment, containers, storage tanks



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