

**Shipbuilding, Rail vehicles, Boiler and container construction, Aerospace, Defence Industry, Truck guardrails, Railway wagons heavy structures, Bicycle manufacturing, Hydraulic system parts, Nuclear energy, Awing manufacturing**

**Gemi yapımı, Raylı araçlar, Kazan ve konteyner yapımı, Havacılık ve uzay, Savunma Sanayi, Kamyon Korkulukları, Demiryolu vagonları ağır yapılar, Bisiklet İmalatı, Hidrolik Sistem parçaları, Nükleer Enerji, Tente İmalatı**

Magnesium, Manganese, Silicon and other elements give this alloy many properties, high strength, good machining and good welding. It is the most common general engineering alloy in extruded form. It offers excellent corrosion resistance and has the highest strength of all 6000 series alloys.

Magnezyum, Manganez, Silikon ve diğer elementler bu alaşıma birçok özellik, yüksek mukavemet, iyi işleme ve iyi kaynak sağlar. Ekstrüze formda en yaygın genel mühendislik alaşımıdır. Mükemmel korozyon direnci sunar ve tüm 6000 serisi alaşımlar arasında en yüksek mukavemete sahiptir.













































Unit mm				
Extruded	20 - 170	20 - 120	5 - 105	20 - 145

Minimum Mechanical Properties / Min. Mekanik Özellikler

EXTRUDE	Temper	Diam. mm	Rm		A%	HBW
			MPa	MPa		
	O, H111	≤ 200	160	110	14	35
	T4	≤ 200	205	110	14	70
	T6	≤ 150	310	260	8	95
	T6	150 < D ≤ 200	280	240	6	95
	T6	200 < D ≤ 250	270	200	6	95

Properties / Özellikler

T6

Machinability				
Protective anodizing				
Decorative anodizing				
Hard anodizing				
Resistance to atmospheric corrosion				
Resistance to marine corrosion				
MIG-TIG weldability				
Resistance weldability				
Brazing weldability				
Plastic formability when cold				
Plastic formability when hot				



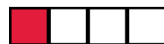
Excellent  
Çok İyi



Good  
İyi



Acceptable  
Kabul Edilebilir



Not recommended  
Önerilmez

# 6082

2015/863 AMENDING ANNEX II TO  
DIRECTIVE 2011/65/EU

Colour Code  
EU - USA  
Blue



Chemical Composition  
/ Kimyasal Bileşenler

Si	0,70 - 1,30
Fe	≤ 0,50
Cu	≤ 0,10
Mn	0,40 - 1,00
Mg	0,60 - 1,20
Cr	≤ 0,25
Ni	-
Zn	≤ 0,20
Ti	≤ 0,10
Pb	-
Bi	-
Others	Each 0,05 Total 0,15
Al	Remainder

Physical Properties  
/ Fiziksel Özellikler

Density	Kg/ dm <sup>3</sup>	2,71
Modulus of elasticity	Mpa	69.000
Coefficient of thermal expansion	x10 <sup>-6</sup> /°C	24
Thermal conductivity at 20°C	W / mK	167
Typical electrical resistivity at 20°C	Ω mm <sup>2</sup> / m	0,037

