

# Alloy 7075

# ALUMINIUM ALLOY

Aluminum alloys have strong corrosion resistance. At subzero temperatures, their strength increases, thus making them a useful low-temperature alloy. Their strength decreases if they are subjected to very high temperatures. The aluminum 7075 alloy has high strength.

## Chemical Properties

Al	Cr	Cu	Fe	Mg	Mn	Zn	Si	Ti	Other each	Other Total
87.1-91.4	0.18-0.28	1.2-2	0.5 max	2.1-2.9	0.3 max	5.1-6.1	0.4 max	0.2 max	0.05 max	0.15 max

## Mechanical Properties

Yield strength	Tensile strength	Elongation	Hardness
Min 0.2% Mpa	Min Mpa	Min %	HRB
103	228	16	60-80

## Physical Properties

Density	Elastic Modulus	Mean Coefficient of Thermal	Thermal Conductivity	Melting Point
(Kg/m <sup>3</sup> )	(Gpa)	Expansion(μm/m/°C)	(W/m.K)	(nΩ.m)
2.81	71.7	23.2	173	477-635

## Equivalent Designation

UNS A 97075  
 Werkstoff no 3.4365  
 Din AlZnMgCu1.5  
 Jis 7075  
 AFNOR A-Z5GU  
 BS L95/L96  
 UNI P-AiZn5.8MgCuCr  
 PN AiZn6Mg2Cu  
 CSN 424222  
 ONORM AlZnMgCu1.5  
 GOST V95  
 ISO AlZn6MgCu

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