

Comparison view

6082	6061
Basic information	
Standard / Country	
United States / AA	United States / AA
Material group	
Nonferrous Alloys / Aluminium	Nonferrous Alloys / Aluminium

6082		6061	
Chemical composition (%)			
Aluminum Standards and Data Metric SI / The Aluminum Association / 2017		Aluminum Standards and Data Metric SI / The Aluminum Association / 2017	
Criteria	Value	Criteria	Value
Al	Remainder	Al	Remainder
Cr	≤ 0.25	Cr	0.04 - 0.35
Cu	≤ 0.10	Cu	0.15 - 0.40
Fe	≤ 0.50	Fe	≤ 0.7
Mg	0.6 - 1.2	Mg	0.8 - 1.2
Mn	0.40 - 1.0	Mn	≤ 0.15
Other each	≤ 0.05	Other each	≤ 0.05
Other total	≤ 0.15	Other total	≤ 0.15
Si	0.7 - 1.3	Si	0.40 - 0.8
Ti	≤ 0.10	Ti	≤ 0.15
Zn	≤ 0.20	Zn	≤ 0.25

6082			6061		
Mechanical properties - Details view					
Temperature: 0 - 30°C			Temperature: 0 - 30°C		
Reference: Aluminum Standards and Data Metric SI / The Aluminum Association / 2017			Reference: Aluminum Standards and Data Metric SI / The Aluminum Association / 2017		
Condition: Extruded tubes; Solution heat treated and artificially aged (T6); 5.00 < wt <= 25.00 mm; Specified wall thickness; Area: all; Reference:Aluminum Standards and Data Metric SI / The Aluminum Association / 2017			Condition: Extruded tubes; Solution heat-treated, quenched and artificially aged (T6, T62); wt <= 6.30 mm; Specified wall thickness; Area: all; Reference:Aluminum Standards and Data Metric SI / The Aluminum Association / 2017		
Property	T(°C)	Value	Property	T(°C)	Value
Tensile Strength	RT	≥ 310 MPa	Tensile Strength	RT	≥ 260 MPa