M F T
Vertriebs GmbH

Data sheet

EN AW - 2618A based on DIN EN 573

AlCu2Mg1,5Ni

Chemical composition: (ref.values/mass %)

Si	Fe	Cu	Mn	Mg	Ni	Zn	Ti	Ti + Zr[1)]	other elements
0,15 – 0,25	0,90 – 1,40	1,80 – 2,70	0,25	1,20 – 1,80	0,80 – 1,40	0,15	0,20	0,25	single 0,05; total 0,15

[1)] by agreement

Mechanical properties: (ref.values DIN EN 586-2)

Cross-sectional dimension in mm²	Temper (DIN EN 515)	Yield strength $R_{p\ 0,2}$ (MPA)		Tensile strength R_m (MPA)		Elongation at break A (%)		Hardness HBW 2,5/62,5 Guide value	Fatigue strength in MPa³
		T[1)]	L[2)]	T	L	T	L		
≤ 100	T 61	300	370	380	420	3	8	130	120

T[1)] Transverse direction to the grain flow / L[2)] Parallel to the grain flow // These are the minimum values according to the standard.

The following information applies to the above alloy

- **Additional features**:
  Weldability:
  Gas: 2
  TIG: 2
  MIG: 2

- **Delivery forms:**
  Die forging or open die forging.

- **Special properties:**
  Hot hardenable alloy with very good strength properties up to 300°C.

- **Application:**
  Highly stressed construction elements for aerospace and mechanical engineering, turbine and engine construction, demanded for higher temperatures.

Notes:

1. Cross-sectional dimensions: For larger cross-sections as specified above, the mechanical properties are basically to be determined per each component.
2. Source specifications for flexural fatigue strength (www.alu-schlüssel.de).
3. Corrosion+welding: Aluminium material data sheet. (evaluation scale: 1= excellent; 2= good; 3=accetable; 4=inadequate; 5=not recommended; 6= unsuitable)
4. All standards in the currently valid version.