Datasheet:

EN AW-7475
Sheet, strip & plate - Aluminium

Alumeco ApS
23-03-2026

Internal alloy name:	**7475**
Chemical Symbol:	**EN AW-Al Zn5,5MgCu(A)**
International alloy name:	**EN AW-7475**
UNS:	**A97475**
DIN-Werkstoff no.:	**-**
Alloy type:	**Heat treatable alloy**

Main usage:

- Aircraft structural parts
- Military components
- Highly stressed components
- Fracture critical components

Main properties:

- Superior fracture toughness
- Good resistance to fatigue cracking
- Superior strength

Important norms and literature:

General Standards:
EN 573-3:2013: Aluminium and aluminium alloys – Chemical composistion and form of wrought products – Part 3: Chemical composition and form of products.

Product standards:
ASM International 10th Ed. 1990 – Metals Handbook, Vol.2 - Properties and Selection: Nonferrous Alloys and Special-Purpose Materials

Geometric Tolerance:
LN 9073:1991 – Aerospace: Sheet and plate in wrought aluminium alloys, standard plane, rolled; dimensions, masses

Chemical composition in %: EN 573-3:2013

Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Max. Each	Others Max. Total
Remainder	Max. 0,10	Max. 0,12	1,2 – 1,9	Max. 0,06	1,9 – 2,6	0,18 – 0,25	5,2 – 6,2	Max. 0,06	0,05	0,15

Mechanical properties:

Temper	Tensile Stress R_m MPa	Proof Stress $R_{p0,2}$ MPa	Elongation Min. % A_{50mm}	Elongation Min. % A	Hardness HBW
T61	565	490	-	-	148
T651	585	510	13	-	150
T7351	495	420	13	-	135
T761	515	450	-	-	140
R7651	530	460	12	-	140

*** Information values only;**

Physical properties:

Density g/cm³	Solidification range °C	Electrical conductivity %IACS	Thermal conductivity W/m K	Thermal expansion (µm m^{-1} K^{-1})	Annealing temperature °C	E - modulus (N / mm²)
2,8	477 - 635	36 – 42	157	23,4	415	72000

Properties and information's (3 high/good; 2 Middle; 1 Poor/bad)

Resistance:
Corrosion index, general: 1-2
Marine Atm. Corr index: 1

Hot workability:
Extrusion: -
Forging: -

Cold formability:
Cold formability general: -
Deep drawing: -
Bending: -

Weldability
TIG welding: 1
MIG welding: 1

Solderability
Brazability index: 1-2
Solderability index: 1-2

Machinability
Machinability index: 2

Anodizing:
Decorative anodizing surface treatment: 1
Protective anodizing index: 1-2
Hard anodizing: -
Color anodizing: -