

DATA SHEET

GENERAL PROPERTIES

- High strength aluminium alloy (Al-Cu-Mg-Fe-Ni) alloy
- Retains static and fatigue properties at elevated temperatures
- Excellent machinability, particularly in heat treated conditions.
- Good cold and hot deformability
- Good corrosion resistance
- Good resistance to creep deformation
- Specific weight: 2.76 kg/dm²

APPLICATION

- Aerospace, defense and automotive applications
- Commonly used for pistons and rotating parts, as turbo chargers

SPECIFICATIONS

- DTD 5014A
- DTD 731B
- EN 3533
- Specific client requirements

MOST COMMON TEMPER TYPES

Available in a range of tempers;

Most common tempers:

- T6, T651, T6511
- T8, T851, T8511

MECHANICAL PROPERTIES

Temper	Dia (mm)	R _m (MPa)	R _{p0,2} (MPa)	A5 (%)
T6 / T6511 T8 / T8511	10 - 100	Min 420	Min. 360	Min. 7
	> 100	Upon client request		

Minimum values can be optimized according to product requirements and heat treatment

CHEMICAL COMPOSITION

%	Si	Fe	Cu	Mn	Mg	Ni	Zn	Ti	each	total
min	0.15	0.9	1.8	-	1.2	0.8	-	-	-	-
max	0.25	1.4	2.7	0.25	1.8	1.4	0.15	0.20	0.05	0.15

SANKYO TATEYAMA EUROPE PRODUCTION POSSIBILITIES

- ROUND, SQUARE AND FLAT BARS
CIRCUMSCRIBED CIRCLE
EXTRUDED: 9 – 220 mm
DRAWN: 9 – 120 mm
- SOLID SECTIONS
- ALL TEMPERS AND STANDARDS
- INDIRECT/DIRECT EXTRUSION
- SOLUTION HEAT TREATMENT, ANNEALING & AGEING
- DRAWING, STRAIGHTENING & CHAMFERING
- STRESS RELIEVING
- ULTRASONIC & EDDY CURRENT INSPECTION
- NADCAP UT & HT