

STEP/G

AA2028A

DATA SHEET

GENERAL PROPERTIES

- Mechanical properties equivalent to AA2030/AlCu4PbMg and AA2007/AlCu4PbMgMn.
- Pb ≤ 0,4%
- Excellent machinability with small chips and limited tool wear similar to AA2030/AlCu4PbMg and AA2007/AlCu4PbMgMn.
- Excellent surface finish after machining, grinding and/or polishing.
- Corrosion resistance comparable to AA2030/AlCu4PbMg and AA2007/AlCu4PbMgMn.

APPLICATION

- Machining of aluminium parts on multi spindle lathe (i.e. fittings, valves, hydraulic parts, automotive and transport components, ...).
- AA2028A is an environmentally-friendly alternative for machining alloys AA2030/AlCu4PbMgMn.
- Pb-free according to the EC Directive 2000/53/EC on end-of-life vehicles and the EC Directive 2002/95/EC (RoHS) for electrical equipment.

CHEMICAL COMPOSITION

%	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Bi	Pb	each	total
min	-	-	3.3	0.2	0.5	-	-	-	-	0.50	0.20	-	-
max	0.8	0.7	4.5	1.0	1.3	0.10	0.10	0.50	0.20	0.70	0.40	0.05	0.15

PHYSICAL PROPERTIES

- Modulus of elasticity: 70GPa
- Specific weight: 2.80 kg/dm³
- Thermal conductivity (25°C): 130 – 220 W/mK
- Thermal expansion (20 – 100°C): ± 23.4 µm/mK
- Electrical conductivity (20°C): 24 – 32 MS/m

MECHANICAL PROPERTIES

Temper	Dimension [mm]	R _m [MPa]	R _{p0.2} [MPa]	A5 [%]
T4	>14 - 80	≥ 370	≥ 250	≥ 8
	>80 - 200	≥ 340	≥ 220	≥ 8
	>200 - 220	≥ 330	≥ 210	≥ 7
T3	>14-30	≥ 370	≥ 240	≥ 7
	>30 - 80	≥ 340	≥ 220	≥ 6

Minimum values can be optimized according to product requirements.

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
- HEAT TREATMENT
- DRAWING, STRAIGHTENING & CHAMFERING
- STRESS RELIEVING
- ANNEALING & AGEING
- ULTRASONIC & EDDY CURRENT INSPECTION