

SERIES 2000 • (Al Cu6BiPb)

This alloy is the most often selected for high speed automatic lathes. 2011 alloy, having a lead content (Pb) registered between 0.2-0.6% will not comply with to produce final parts according to directive RoHS, 18/05/2021, and subject to specific authorization for REACH compliance (PB \leq 0.1%).

CHEMICAL COMPOSITION (WEIGHT %) (EN 573 - 3)

ELEMENTS	Si	Fe	Cu	Pb	Bi	Cr	Zn	Ti	Al
Minimum	-	-	5	0.2	0.2	-	-	-	-
Maximum	0.4	0.7	6	0.6	0.6	-	0.30	-	Rest

MECHANICAL PROPERTIES (EN 754 - 2)

CALIBRATED

TEMPER	DIAMETER (mm)	Rm* (MPa)	Rp0.2* (MPa)	A* (%)	HB - BRINELL HARDNESS
Т3	≤ 40	320	270	10	90
T3	40 - ≤ 50	300	250	10	90
Т3	50 - ≤ 80	280	210	10	90

^{*}Minimum values



APPLICATIONS

- Screws
- Nuts
- Threads
- Threaded rods

MAIN CHARACTERISTICS

- Easy machining
- Less stress cutting than most alloys
- Extended life of cutting tools
- Very fine scrap
- High mechanical properties
- Possibility of anodizing finished parts in different colours











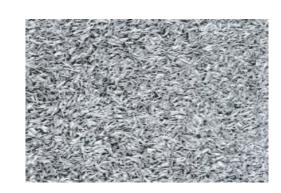


CONDUCTIVITY HARDNESS

SERIES 2000

PHYSICAL PROPERTIES

DENSITY	2.83 g/cm ³
MODULUS OF ELASTICITY	70 000 MPa
LINEAR EXPANSION COEFFICIENT	22.9 10 ⁻⁶ K ⁻¹
THERMAL CONDUCTIVITY	151 W/mK
ELECTRICAL CONDUCTIVITY	53 - 49 MS/m



PROPERTIES	T3/T6
MACHINABILITY	EXCELLENT
PROTECTIVE ANODIZING	FAIR
DECORATIVE ANODIZING	POOR
HARD ANODIZING	POOR
RESISTANCE TO ATMOSPHERIC CORROSION	FAIR
RESISTANCE TO MARITIME CORROSION	POOR
MIG-TIG WELDABILITY	POOR
RESISTANCE TO WELDABILITY	FAIR
ABRASIVE WELDABILITY	POOR
COLD PLASTIC FORMABILITY	FAIR
HOT PLASTIC FORMABILITY	FAIR

DELIVERY PROGRAM

ROUND RODS

DIAMETER¹(mm) CALIBRATED h9	WEIGHT (kg/m)	STOCK T3				
Standard length 3000mm						
3	0.019	•				
4	0.035	•				
5	0.055	•				
6	0.079	•				
7	0.107	•				
8	0.140	•				
9	0.178	•				
10	0.219	•				
11	0.266	•				
12	0.316	•				
14	0.431	•				
15	0.494	•				
16	0.562	•				
18	0.712	•				
19	0.793	•				
20	0.879	•				
21	0.969	•				
22	1.064	•				
25	1.374	•				
26	1.486	•				

¹Other diameters available on request. $\label{production} \mbox{Average weights of production}.$

Standard: generally available from stock
Semi-standard: generally not available from stock
Non-standard: generally not available from stock, manufactured to order and subject to special conditions.