

2024 by EURAL

Color code

PRODUCTION PROGRAM

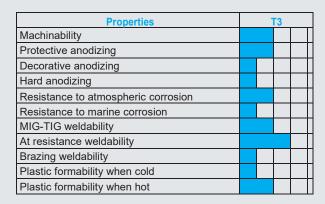
Unit: in				
Drawn	0.787 - 3	-	-	-
Extruded	1.181 - 10	2 - 6.5	Thick. 1.181 - 5	-

According to EU directives: 2000/53/EU (ELV) - 2011/65/EU (RoHS II)



PRESENTATION
This alloy has high mechanical properties and excellent resistance to fatigue. During machining, it creates quite long chips, therefore it is not well suited for automatic lathes.

Main applications; screws and bolts, high structural resistance components for aviation and defense.







Excellent	Good	

Chemical composition

cellent	Good	Acceptable	Not recommended

Official composition			
Si	≤ 0.50		
Fe	≤ 0.50		
Cu	3.80 - 4.90		
Mn	0.30 - 0.90		
Mg	1.20 - 1.80		
Cr	≤ 0.10		
Ni			
Zn	≤ 0.25		
Ti	≤ 0.15		
Pb			
Bi			
Others	Each 0.05 Total 0.15		
ΔΙ	Remainder		

Physical properties			
Density	lb in 3	0.1008	
Modulus of elasticity	ksi	10,153	
0 #	x10 ⁻⁶	40.0	
Coeffi cient of thermal expansion	°F	12.8	
Thermal conductivity at 68°F	Btu	60.0	
	ft h °F	68.9	
Typical cleatrical registivity at 60°E	Ω mm 2	0.057	
Typical electrical resistivity at 68°F	m	0.057	

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	Minimum mechanical properties					
			UTS	YTS		HBW
	Temper	Diam. in	ksi	ksi	A%	Typica
	Т3	≤ 3	61.6	42.1	9	120
	T351	≤ 3	61.6	45	8	120
Drawn	T6	≤ 3	61.6	45.7	5	125
	T651	≤ 3	61.6	45.7	4	125
	Т8	≤ 3	66	58	4	130
	T851	≤ 3	66	58	3	130
Extruded	T3, T3510, T3511	≤ 2	65.3	45	8	120
	T3, T3510, T3511	$2 < D \le 4$	63.8	43.5	8	120
	T3, T3510, T3511	4 < D ≤8	60.9	40.6	8	120
EX	T3, T3510, T3511	8 < D ≤ 10	58	39.2	8	120
	T8, T8510, T8511	≤ 6	66	55.1	5	130