

# Alloy 6026 by MTC NISSAL company

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

Color code EU **BLANK**

PRODUCTION PROGRAM			
Unit:mm			
Drawn	10 ÷ 65	10 ÷ 36	20 ÷ 36
Extruded	20 ÷ 120	20 ÷ 36	20 ÷ 36

Alloy 6026 is particularly suitable for being machined on high speed automatic lathes. It has good resistance to corrosion, medium-high mechanical properties, good suitability for decorative and industrial hard anodizing. It is also used for hot forging purposes. Alloy 6026 does not contain Tin (Sn) which can cause weakness and cracking of machined parts when subjected to stress and high temperature.

Main applications is automotive industry, electric and electronic industry, hot forging, screws, bolts, nuts., threaded parts.

## CHEMICAL COMPOSITION

Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Sn	Pb	Bi	Other	Al
0.6÷1.4	≤0.7	0.2÷0.5	0.2÷1.0	0.6÷1.2	≤0.3		≤0.3	≤0.2	≤0.05	≤0.4	0.5÷1.5	Each 0.05 Total 0.15	Remainder

## PHYSICAL PROPERTIES

Density	$\frac{\text{Kg}}{\text{dm}^3}$	2.72
Modules of elasticity	MPa	69.000
Coefficient of thermal expansion	$\frac{\times 10^{-6}}{^{\circ}\text{C}}$	23.4
Thermal conductivity at 20°C	$\frac{\text{W}}{\text{mk}}$	172
Typical electrical resistivity at 20°C	$\frac{\Omega\text{mm}^2}{\text{m}}$	0.039

## MECHANICAL PROPERTIES

	Temper	Diam mm	Rm Mpa	Rp Mpa	A%	HBW Tipical
Drawn	T6	≤80	370	300	8	95
	T8	≤80	345	315	4	95
	T9	≤80	370	330	4	95
Extruded	T6	≤140	370	300	8	95
	T6	140<D≤200	340	250	8	90
	T6	200<D≤250	300	200	8	90

PROPERTIES	T6				T8/T9			
Mechinability								
Protective anodizing								
Decoratice anodizing								
Hard anodizing								
Resistance to atmospheric corrosion								
Resistance to marine corrosion								
MIG-TIG weldability								
At resistance weldability								
Brazing weldability								
Plastic farmability when cold								
Plastic farmability when hot								



Legend

Excellent				

Good				

Acceptable				

Not recommended				

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