Alloy 7075 by MTC NISSAL company

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

Color code EU VIO LET

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

Alloy 7075 has the highest strength of all aluminum machine alloys and high re sistance to fatigue. Moreover, it has good resistance to

corro-sion and attitude to hard, protective and decorative anodizing.

Main applications: Due to its very high strength, alloy 7075 is used for highly stressed structural parts for mechanical industry, aviation defense, motorbike and automotive.

Applications include aircraft fittings, gears and shafts and various other commercial aircraft, aerospace and defense equipment.

CHEMICA	AL COMP	OSITION	I									
Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Zr+Ti	Pb	Bi	Other	Al
≤0.4	≤0.5	1.2÷2	≤0.3	2.1÷2.9	0.18÷0.20		5.1÷6.1	≤0.2			Each 0.05 Total 0.15	Remainder

PHYSICAL PROPERTIES		
Density	Kg dm3	2.8
Modules of elasticity	MPa	72.000
Coefficient of thermal expansion	<u>x10⁻6</u> °C	23.5
Thermal conductivity at 20°C	<u>W</u> mk	130
Typical electrical resistivity at 20°C	<u>Ωmm²</u> m	0.052

	WEGIANICALTROLERRIES							
	Temper	Diam mm	Rm Mpa	Rp Mpa	A%	HBW Tipical		
	Т6	≤80	540	485	7	150		
Drawn	T651	≤80	540	485	5	150		
Dra	T73	≤80	455	385	10	135		
	T7351	≤80	455	385	8	135		
	T6,T6510,,T6511	≤100	560	500	7	150		
	T6,T6510,T6511	100 <d≤150< td=""><td>550</td><td>440</td><td>5</td><td>150</td></d≤150<>	550	440	5	150		
papı	T6,T6510,T6511	150 <d≤200< td=""><td>440</td><td>400</td><td>5</td><td>150</td></d≤200<>	440	400	5	150		
Extruded	T73,T73510,T73511	≤75	475	405	7	135		
	T73,T73510,T7351	75 <d≤100< td=""><td>470</td><td>390</td><td>6</td><td>135</td></d≤100<>	470	390	6	135		
	T73,T73510,T7351	100 <d≤150< td=""><td>440</td><td>360</td><td>6</td><td>135</td></d≤150<>	440	360	6	135		

MECHANICAL PROPERTIES

PROPERTIES		T6	
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			

Excellent	Le	genu		
Excellent				
		Exc	ellen	t

(300	d			Acc	epta	able
2000		51111		W 150		F-133.75	100

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Not						
recommended	ı					

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