

## TECHNICAL DATA SHEET CREAL ALLOY 6060

### 6060 CREAL Chemical composition

	MIN	MAX
Si	0,42	0,55
Mg	0,4	0,55
Fe	0,2	0,25
Cu	0	0,05
Zn	0	0,05
Mn	0,03	0,05
Cr	0,01	0,03

### 6060 CREAL Physical Characteristics sheet

Density	2,70 g/cm <sup>3</sup>
Lower melting point	605°C
Specific heat between 0° e 100°C	890 J/Kg °K
Linear modulus of elasticity E	69 kN/mm <sup>2</sup>
Tangential modulus of elasticity G	26 kN/mm <sup>2</sup>
Thermal conductivity at 20°C:	In state T6: 1,75 W/cm <sup>2</sup> K
Electrical resistivity at 20°C:	In state T6: 3,25 μΩ - cm

### 6060 CREAL Mechanical Properties Sheet

Type of profile	Supply conditions	Diameter D (mm) for round or thickness S (mm) for bars, wall thickness and for profiles		Breaking load $\sigma_{rot}$	Admissible bending tension $\sigma_{amm. With a=3}$ $\sigma_{am.} = \sigma_{rot.}/3$	Admissible torsional tension $\tau_{amm.} \tau_{am.} = \sigma_{amm.}$ <del>/3</del>
Full bars	T4	D ≤ 150	S ≤ 150	120	40	23
	T5	D ≤ 150	S ≤ 150	160	53.3	30.7
	T6	D ≤ 150	S ≤ 150	190	63.3	36.5
	T64	D ≤ 50	S ≤ 50	180	60	34.6
	T66	D ≤ 150	S ≤ 150	215	71.6	41.3
Extruded tubs	T4	e ≤ 15		120	40	23
	T5			160	53.3	30.7
	T6			190	63.3	36.5
	T64			180	60	34.6
	T66			215	71.6	41.3
Open and empty profiles	T4	e ≤ 15		120	40	23
	T5	e ≤ 15		160	53.3	30.7
	T5	5 < e < 25		140	46.6	26.9
	T6	e ≤ 3		190	63.3	36.5
	T6	3 < e < 25		170	56.6	32.7
	T64	e ≤ 15		180	60	34.6
	T66	e ≤ 3		215	71.6	41.3
	T66	3 < e < 25		195	65	37.5

### Indicative evaluations

#### INDINVEST LT S.r.l. a Socio Unico

Sede Legale e Stabilimento  
S. P. Ninfina II<sup>a</sup>, km 1+200  
04012 Cisterna di Latina (LT)  
Tel. 06.960.27.1  
Fax 06.960.27.258

<http://www.indinvest.it>  
e-mail: [info@indinvest.it](mailto:info@indinvest.it)  
codice destinatario SDI: A4707H7

AZIENDA CON  
SISTEMA DI GESTIONE  
QUALITÀ CERTIFICATO  
DA IGQ  
ISO 9001

AZIENDA CON  
SISTEMA DI GESTIONE  
AMBIENTALE CERTIFICATO  
DA DNV  
ISO 14001

AZIENDA CON  
SISTEMA DI GESTIONE  
DELL'ENERGIA CERTIFICATO  
DA DNV  
ISO 50001