



DEVILLE
RECTIFICATION

Buderus | Edelstahl



7075

*Aluminium alloy
(Al Zn Mg CU 1.5)
TEMPER Hardened T651*



Chemical analysis (weight %) Min. Max.

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other	Al
Min.			1.2		2.1	0.18	5.1			
Max.	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.15	remains

Performance properties and aptitudes :

Essentially intended for mechanical applications, this alloy is stronger than 2017 A (AU4G). Its excellent mechanical properties are closer to those of semi-hard structural steel, with considerably less weight, very good machinability and excellent corrosion resistance.

Good dimensional stability for machining, good anodisability but very poor weldability (acceptable for resistance welding). Good mechanical strength at heat of up to max. 100-120°C

Cutting-tool shoes, column blocks, die holders, prototype moulds, moulds for elastomers or injection of plastic materials, assorted mechanical parts, structural elements of special machines, machining fixtures, riveted and bolted constructions exposed to considerable loads.

Tensile strength	492 / 533 MPA
Limit of elasticity Rp 0.2	426 - 462 MPA
Elongation %	7.3 - 8.5
Hardness HB	150
Specific gravity	2.80
Thermal conductivity W / m.k	130
Electric conductivity m/Ohm.mm ²	19
Thermal stress coefficient 10-6/K	23.4
Modulus of elasticity MPA	71,000

Non-contractual document 10 October 2011 edition

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Z.I Desforanges
Boite postale 3
F-43330 Pont-Salomon



Tél :+ 33 (0)4 71 66 29 71
Fax :+ 33 (0)4 71 66 29 72
Com@deville-rectif.com
www.deville-rectif.com