



**DEVILLE  
RECTIFICATION**

**Buderus** | Edelstahl



»»» **2024**

*Aluminium alloy  
Al Cu4 Mg1 (AU4G1)  
TEMPER T351*

**Chemical analysis (weight %) Min. Max.**

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other	Al
Min			3,80	0,30	1,20					
Max	0,5	0,5	4,90	0,9	1,80	0,10	0,25	0,15	0,15	remains

**Performance properties and aptitudes :**

Mechanical characteristics by structural hardening. Good mechanical characteristics, in particular in the quenched, tempered or aged-hardened state. It is because of these mechanical characteristics that this alloy has been chosen for aeronautical applications.

Good resistance to heat.

No resistance to corrosion in a corrosive atmosphere because of the presence of copper.

In general, used for parts subjected to stresses.

Alloy 2024 has good mechanical characteristics because of a higher magnesium level.

It has good toughness and resistance to crack propagation.

2024 is very much used in aeronautical construction and in engineering.

Tensile strength	360 / 430 MPA
Limit of elasticity Rp 0.2	250 - 290 MPA
Elongation %	5 - 11
Hardness HB	104 / 122
Specific gravity	2.77
Thermal conductivity W / m.k	120
Electric conductivity % IACS	30
Thermal stress coefficient 10 <sup>-6</sup> /K	22,9
Modulus of elasticity MPA	73 000

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