



DEVILLE
RECTIFICATION

Buderus | Edelstahl



6082

Aluminium alloy
AlSi1Mg
TEMPER T651



Chemical analysis (weight %) Min. Max.

| | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti | Other | Al |
|------|------|------|------|------|------|------|------|------|-------|---------|
| Min. | 0.70 | | | 0.40 | 0.60 | | | | | |
| Max. | 1.30 | 0.50 | 0.10 | 1.00 | 1.2 | 0.25 | 0.20 | 0.10 | 0.15 | remains |

Performance properties and aptitudes :

- Hardening alloy, good mechanical properties
- Very good shape stability for machining
- Excellent corrosion resistance, very good weldability
- Very good formability and cold shapeability
- Good polishability and suitability for anodising treatment
- Good electric conductivity

| | |
|-----------------------------------|---------------|
| Tensile strength | 290 / 310 MPA |
| Limit of elasticity Rp 0.2 | 240 MPA |
| Elongation % | 8 |
| Hardness HB | 95 |
| Specific gravity | 2.71 |
| Thermal conductivity W / m.k | 174 |
| Electric conductivity % IACS | 41 |
| Thermal stress coefficient 10-6/K | 23.5 |
| Modulus of elasticity MPA | 69,500 |

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