

Title (en)
HIGH-DUCTILITY ALUMINIUM ALLOY PART CAST UNDER PRESSURE

Title (de)
DRUCKGEGOSSENES BAUTEIL AUS EINER DUKTILEN ALUMINIUM-LEGIERUNG

Title (fr)
PIECE COULEE SOUS PRESSION EN ALLIAGE D'ALUMINIUM A HAUTE DUCTILITE

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Application
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Abstract (en)
[origin: WO03006698A1] The invention concerns a safety or structural part cast under pressure made of high-ductility aluminium alloy consisting of (in wt. %): Si 2-6; Mg < 0.40; Cu < 0.30; Zn < 0.30; Fe < 0.50; Ti < 0.30, at least an element for reducing adherence on the mould such as Mn (0.3-2%), Cr (0.1-0.3), Co (0.1-0.3), V (0.1-0.3) and Mo (0.1-0.4), and at least an element modifying eutectics, such as Sr (50-500 ppm), Na (20-100 ppm) and Ca (30-120 ppm); other elements < 0.05 each and < 0.10 in total, the balance being aluminium exhibiting, after T5 tempering at a temperature less than 220 DEG C, a yield strength Rp0.2 > 110 MPa and an elongation A > 10 %.

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