

Title (en)
Al-Mg-Si-Mn-Fe CASTING ALLOYS

Title (de)
AL-MG-SI-MN-FE-GUSSLEGIERUNGEN

Title (fr)
ALLIAGES DE MOULAGE D'AL-MG-SI-MN-FE

Publication
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Application
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Abstract (en)
[origin: WO2019217319A1] New aluminum casting (foundry) alloys are disclosed. The new aluminum casting alloys generally include from 2.5 to 5.0 wt. % Mg, from 0.70 to 2.5 wt. % Si, wherein the ratio of Mg/Si (in weight percent) is from 1.7 to 3.6, from 0.40 to 1.50 wt. % Mn, from 0.15 to 0.60 wt. % Fe, optionally up to 0.15 wt. % Ti, optionally up to 0.10 wt. % Sr, optionally up to 0.15 wt. % of any of Zr, Sc, Hf, V, and Cr, the balance being aluminum and unavoidable impurities. The new aluminum casting alloys may be high pressure die cast, such as into automotive components. The new aluminum alloys may be supplied in an F or a T5 temper, for instance.

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