

Title (en)

AL-MG-SI ENERGY ABSORPTION EXTRUSION COMPONENT AND METHOD OF MAKING THEREOF

Title (de)

AL-MG-SI ENERGIEABSORBIERENDES STRANGPRESSBAUTEIL UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

COMPOSANT D'EXTRUSION A ABSORPTION D'ENERGIE AL-MG-SI ET SON PROCEDE DE FABRICATION

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Application

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Abstract (en)

The present invention relates to an aluminum 6XXX (Al-Mg-Si) alloy extrusion component exhibiting a superior combination of strength and energy absorption for crash management applications in automotive markets and for other applications where energy absorption is a critical property. These components provide yield strengths greater than 260 MPa, and preferably greater than 280 MPa, while simultaneously providing energy absorption per unit cross-sectional area of greater than 20 kJ/mm² using the defined crush testing parameters in the present specification.

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