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Obtención de la aleación Aluminio-Magnesio- Aluminio, por colaminación, usando aluminio
reciclado

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Abstract

By means of co-rolling technique, an aluminium-magnesiumaluminium material was prepared with aluminium recovered and magnesium 99.8 % pure. The co-rolled material was divided at several fractions, some wick were submitted to heat treatments through 6 and 50 hours to 350 °C. The microstructure was analysed by scanning electron microscopy and its mechanical resistance was determined by tension test. The co-rolled material with 50 hours of heat treatment present better mechanical properties and perfect union zones between Al and Mg. The corrosion test development into marine environment evidence low corrosion rate for the alloy with long heat treatment.

Keywords

Aluminium-magnesium alloy, mechanical properties,
co-rolling, scanning electron microscopy, corrosion.

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