

Title (en)
STEEL SHEET FOR FUEL TANKS AND PROCESS FOR MANUFACTURING THE SHEET

Title (de)
STAHLBLECH FÜR BRENNSTOFFTANKS UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
TÔLE D'ACIER POUR RÉSERVOIRS DE COMBUSTIBLE ET SON PROCÉDÉ DE FABRICATION

Publication
EP 2233610 A1 20100929 (EN)

Application
EP 08854204 A 20081128

Priority
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• JP 2007307416 A 20071128

Abstract (en)
A steel sheet for fuel tanks includes a Zn-Ni alloy electroplating layer disposed on at least one surface thereof and a chromate coating disposed on the alloy electroplating layer. The change in amount of chromium in the chromate coating immersed in boiling water for 30 minutes is 2% or less of the amount of chromium in the chromate coating not immersed in boiling water. An L-value indicating the color tone of the steel sheet is 55 or more. The difference between the maximum and minimum of the L-value is three or less. The chromating solution can be obtained in such a manner that a chromating solution is applied onto the alloy electroplating layer and then heated. The chromating solution contains chromic acid having a mass ratio (trivalent chromium) / (total chromium) of greater than 0.5, phosphoric acid having a mass ratio (phosphoric acid) / (total chromium) of 0.1 to 5.0, and an organic reducing agent. The steel sheet has a good appearance and excellent long-term corrosion resistance to fuels such as gasoline, alcohols, and alcohol-blended gasoline.

IPC 8 full level
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CPC (source: EP)
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Cited by
EP2644751A4; US2022227105A1; US10144196B2; US10253386B2

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