

Title (en)
PROCESS FOR PRODUCING HEAT-TREATABLE SHEET ARTICLES

Title (de)
VERFAHREN ZUR HERSTELLUNG VON WÄRMEBEHANDLUNGSFÄHIGEN BLECH-GEGENSTÄNDEN

Title (fr)
PROCEDE DE PRODUCTION D'ARTICLES EN TOLE TRAITABLES A CHAUD

Publication
EP 1100977 B1 20041013 (EN)

Application
EP 99928955 A 19990707

Priority
• CA 9900618 W 19990707
• US 9205198 P 19980708

Abstract (en)
[origin: WO0003052A1] A process of heat treating a sheet article made of a 6000 series aluminum alloy to achieve good "paint-bake response" that is substantially unaffected by natural aging. The process comprises heating the alloy sheet article at a solutionizing temperature followed by cooling the alloy sheet article. The cooling involves the following steps: (1) cooling from said solutionizing temperature to a temperature in the range of 150 - 250 DEG C at a rate greater than or equal to about 4 DEG C per second; (2) further cooling the alloy to a temperature in the range of ambient to 100 DEG C at a rate of 20 to 30 DEG C (preferably about 25 DEG C) per minute; and (3) further cooling the alloy sheet article having a temperature of 55 DEG C or more after step (2) to ambient temperature at a rate of less than 2 DEG C per hour. Alloy sheet articles suitable for use in the fabrication of automobile skin part can be produced in this way.

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IPC 8 full level
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