

Title (en)

PROCESS FOR THE MANUFACTURE OF HOLLOW BODIES OF AN ALUMINIUM ALLOY, AND PRODUCTS THUS OBTAINED

Publication

**EP 0020282 B1 19821229 (FR)**

Application

**EP 80420064 A 19800528**

Priority

FR 7915054 A 19790601

Abstract (en)

[origin: ES8102198A1] The invention relates to a process for obtaining hollow bodies made of aluminum alloy having a high bursting strength, and to the products thus obtained. The alloy contains (by weight): from 7.6 to 9.5% of Zn from 1 to 1.8% of Cu from 2.4 to 3.5% of Mg from 0.07 to 0.17% of Cr from 0.15 to 0.25% of Mn from 0.08 to 0.14% of Zr less than 0.2% of Fe, 0.15% of Si 0.10% of Ti and optionally less than 0.01% of V. It has a tensile stress (lengthwise direction) and a bursting strength (transverse direction) greater than or equal to 660 MPa. Its structure is characterized by the absence of large intermetallic compounds ( $>35 \mu\text{m}$ ) after a specific solidification test. It can be used in all the safety applications involving a container under pressure (bottles of compressed gas, etc.).

IPC 1-7

**C22C 21/10**; **C22F 1/04**

IPC 8 full level

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Cited by

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