

Abstract**Metal foam bodies and process for production thereof**

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The present invention relates to processes for producing metal foam bodies, in which metal-containing powders that may comprise aluminium and chromium or molybdenum are applied to metal foam bodies that may comprise nickel, cobalt, copper and iron and then treated thermally, wherein the highest temperature in the thermal treatment of the metal foam bodies is in the range
10 from 680 to 715°C, and wherein the total duration of the thermal treatment within the temperature range from 680 to 715°C is between 5 and 240 seconds. Following this method of thermal treatment can achieve alloy formation at the contact surface between metal foam body and metal-containing powder, but simultaneously leave unalloyed regions within the metal foam. The present invention further comprises processes comprising the treatment of the alloyed metal foam bodies
15 with basic solution. The present invention further comprises the metal foam bodies obtainable by these processes, which find use, for example, as support and structure components and in catalyst technology.

[No figure]