

Title (en)

Porous mould materials, their production and their use for forming ceramic castings

Title (de)

Materialien für poröse Formen, ihre Herstellung und ihre Verwendung zum Formen von keramischen Produkten

Title (fr)

Matériaux pour moules poreux, leur production et leur utilisation pour le moulage de céramiques

Publication

EP 0516224 B1 19960410 (EN)

Application

EP 92201457 A 19920521

Priority

DE 4117745 A 19910530

Abstract (en)

[origin: EP0516224A1] The invention relates to porous, water-absorbent plastics mould material for use in the forming of ceramic castings from ceramic moulding materials. According to the invention they contain short fibres of length 1-6 mm in a quantity of up to 4 weight% with respect to the weight of the plastics content, as filler. The invention also relates to a process for producing these mould materials and their use in the forming of ceramic castings. Shrinkage and mechanical properties are considerably improved by the addition of short fibres, even in a very small added quantity. By producing the mould materials from water-in-oil emulsions the permeability of the mould materials can be adjusted within a wide range by controlling the degree of dispersion of the emulsion, so that both pressure-less and pressurized ceramic body formation and controlled release of the ceramic body from the mould by compressed air without the use of an aid become possible.

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IPC 8 full level

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Cited by

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