

Title (en)

CERAMIC SLIP FOR PRECISION CASTING BASED ON A CAPILLARY SUSPENSION

Title (de)

KERAMISCHER SCHLICKE FÜR DEN FEINGUSS AUF BASIS EINER KAPILLARSUSPENSION

Title (fr)

BARBOTINE CÉRAMIQUE DESTINÉE À LA COULÉE DE PRÉCISION BASÉE SUR UNE SUSPENSION CAPILLAIRE

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Application

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Abstract (en)

[origin: WO2023020905A1] The present invention relates to a ceramic slip for precision casting based on a capillary suspension, and to a method for producing at least one ceramic mould or at least one precision cast component using the ceramic slip. The present invention also relates to the use of the ceramic slip according to the invention for producing ceramic cast cores and further porous moulded bodies. The ceramic slip comprises a particle phase, a primary phase which contains a polar primary liquid, and a secondary phase which contains a secondary liquid that is not miscible with the primary liquid; wherein either the primary phase or the secondary phase, or wherein both the primary phase and the secondary phase, additionally contain at least one binder; wherein the proportion of the particle phase is 10-70 vol.%, the proportion of the primary liquid is 15-81 vol.%, the proportion of the secondary liquid is 1-15 vol.% and the proportion of the binder is 0.25-74 vol.%, each based on the total composition of the ceramic slip.

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