

Title (en)

HEAT TRANSFER LIMITING FLUX AND ITS USE IN GALVANISING STEEL

Title (de)

DIE WÄRMEÜBERTRAGUNG BEGRENZENDES FLUSSMITTEL UND DESSEN VERWENDUNG BEI DER GALVANISIERUNG VON STAHL

Title (fr)

FLUX LIMITANT LE TRANSFERT DE CHALEUR ET SON UTILISATION DANS LA GALVANISATION DE L'ACIER

Publication

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Application

EP 04817552 A 20041209

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Abstract (en)

[origin: WO2005056867A2] The present invention relates to a water based flux for hot-dip batch galvanising of steel. Steel articles are hereby subjected to rapid heating, in particular when using a zinc-bath composition with a high wetting ability towards steel. It is an aim of the present invention to alleviate the thermal stress problem by using fluxes which, upon dipping, reduce the heat transfer coefficient between the steel and the zinc melt. The invented flux comprises a total of 200 to 600 g/l of ZnC12 and NH4C1, with a NH4C1 to ZnC12 molar ratio of 1.7 to 3.3, and is characterised in that it further comprises 8 to 80 g/l A1C13.

IPC 8 full level

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See references of WO 2005056867A2

Cited by

CN108884545A; US11499216B2; CN109477196A; JP2019518142A; EP3663429A1; WO2017215796A1

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