

Title (en)

METHOD FOR PRODUCING FERTILIZER GRANULATES CONTAINING UREA AND AMMONIUM SULFATE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON HARNSTOFF UND AMMONSULFAT ENTHALTENDEN DÜNGEMITTEL-GRANULATEN

Title (fr)

PROCEDE DE PREPARATION D'ENGRAIS SOUS FORME DE GRANULES CONTENANT DE L'UREE ET DU SULFATE D'AMMONIUM

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Application

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Abstract (en)

[origin: DE19826570A1] The invention relates to a method for producing fertilizer granulates which contain urea and ammonium sulfate and which have an ammonium sulfate concentration ≤ 60 wt.%. According to the invention, a) a melted material suspension which is comprised of ammonium sulfate having an average particle size ranging from 30 to 300 μm and urea is produced at a temperature ranging from 120 to 155 DEG C; b) afterwards, the melted material suspension formed in step a) is diffused from underneath in a fluidized bed granulator with the aid of at least one nozzle into fine ammonium sulfate urea particles, whereby the fluidized bed is loosened by an ebullating air stream in the area of the injection point, and afterwards; c) the fertilizer granulate formed in the fluidized bed is detached and optionally processed. The method permits the production of homogeneous urea ammonium sulfate granulates having an ammonium sulfate content ranging from 30 to 60 wt.% in a trouble-free manner, whereby the core size of the granulate can be adjusted in a targeted manner and the emission of dust during granulation can be minimized.

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