

Title (en)

METHOD FOR APPLYING A PHOSPHATE COATING ON A STEEL OR IRON PART, AND CORRESPONDING STEEL OR IRON PART

Title (de)

VERFAHREN ZUM AUFBRINGEN EINER PHOSPHATBESCHICHTUNG AUF EIN STAHL- ODER EISENTEIL UND ENTSPRECHENDES STAHL- ODER EISENTEIL

Title (fr)

PROCEDE D'APPLICATION D'UN REVETEMENT AU PHOSPHATE SUR UNE PIECE EN ACIER OU EN FER ET PIECE EN ACIER OU EN FER CORRESPONDANTE

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Application

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Abstract (en)

[origin: WO2005106074A1] Method for applying a phosphate coating on an iron or steel part, and corresponding iron or steel part. The method according to the invention consists in a first coating step with a first phosphating, through which a first crystalline layer of iron and manganese phosphates is obtained, an intermediate step of partial pickling of said first crystalline layer of phosphates, leaving the base metal partially uncovered, and a second coating step comprising a second phosphating through which a second crystalline layer of iron and manganese phosphates is obtained, covering the partially pickled first layer of phosphates and the base metal. The method provides a coating with a lower thickness, a finer crystallisation and a lower rugosity R_k than the one that can be obtained by a simple phosphating.

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