

Title (en)
AQUEOUS COMPOSITION FOR COATING GRAIN-ORIENTED STEEL

Title (de)
WÄSSRIGE ZUSAMMENSETZUNG ZUR BESCHICHTUNG VON KORNIORIENTIERTEM STAHL

Title (fr)
COMPOSITION AQUEUSE DESTINÉE AU REVÊTEMENT D'ACIER À GRAINS ORIENTÉS

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Abstract (en)
[origin: WO2020161094A1] The present invention relates to an aqueous composition for coating grain-oriented steel, comprising - aluminum cations, - manganese cations, - dihydrogen phosphate, hydrogen phosphate and/or phosphate anions, - colloidal silicon dioxide and - optionally iron cations, wherein the aluminum cations present in the composition, calculated as Al_2O_3 , the manganese cations, calculated as MnO , the dihydrogen phosphate, hydrogen phosphate and/or phosphate anions, calculated as P_2O_5 , colloidal silicon dioxide, calculated as SiO_2 , and optionally the iron cations, calculated as FeO , result in the molecular formula $(\text{Al}_2\text{O}_3)_2(\text{MnO})_{1,8-2,4}(\text{FeO})_{0-0,2}(\text{P}_2\text{O}_5)_{5-7}(\text{SiO}_2)_{\geq 30}$.

Abstract (de)
Die vorliegende Patentanmeldung betrifft eine wässrige Zusammensetzung zur Beschichtung von kornorientiertem Stahl umfassend- Aluminiumkationen,- Mangankationen,- Dihydrogenphosphat-, Hydrogenphosphat- und/oder Phosphatanionen,- kolloidales Siliziumdioxid und- optional Eisenkationen, wobei die in der Zusammensetzung vorhandenen Aluminiumkationen, berechnet als Al_{2O_3} , Mangankationen, berechnet als MnO , Dihydrogenphosphat-, Hydrogenphosphat- und/oder Phosphatanionen, berechnet als P_{2O_5} , kolloidales Siliziumdioxid, berechnet als SiO_2 , und optional Eisenkationen, berechnet als FeO , die Summenformel $(\text{Al}_{2\text{O}_3})_2(\text{MnO})_{1,8-2,4}(\text{FeO})_{0-0,2}(\text{P}_{2\text{O}_5})_{5-7}(\text{SiO}_2)_{\geq 30}$ ergeben.

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