

Title (en)
FERRITIC STAINLESS STEEL

Title (de)
FERRITISCHER EDELSTAHL

Title (fr)
ACIER INOXYDABLE FERRITIQUE

Publication
EP 3670692 A1 20200624 (EN)

Application
EP 18215480 A 20181221

Priority
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Abstract (en)
The invention relates to a Ferritic stainless steel having excellent corrosion and sheet forming properties. The steel consists of in weight percentages 0.003 - 0.035 % carbon, 0.05 - 1.0 % silicon, 0.10 - 0.8 % manganese, 18 - 24 % chromium, 0.05 - 0.8 % nickel, 0.003 - 2.5 % molybdenum, 0.2 - 0.8 % copper, 0.003 - 0.05 % nitrogen, 0.05 - 1.0 % titanium, 0.05 - 1.0 % niobium, 0.03 - 0.5 % vanadium, 0.010 - 0.04 % aluminium, and the sum C+N less than 0.06 %, the remainder being iron and inevitable impurities, wherein the ratio(Ti+Nb)/(C+N) is higher or equal to 8, and less than 40, and the ratioTieq/Ceq = (Ti + 0.515*Nb + 0.940*V)/(C+0.858*N) is higher or equal to 6, and less than 40, andLeq = 5.8*Nb + 5*Ti*Si is higher or equal to 3.3, and the steel is produced using AOD (Argon-Oxygen-Decarburization) technology.

IPC 8 full level
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CPC (source: EP KR US)
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Citation (applicant)
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