

Title (en)

STEEL OF HIGH CORROSION RESISTANCE AND STEEL OF HIGH CORROSION RESISTANCE AND WORKABILITY.

Title (de)

STAHL MIT HOHEM KORROSIONSWIDERSTAND UND STAHL MIT HOHEM KORROSIONSWIDERSTAND UND VERARBEITBARKEIT.

Title (fr)

ACIER TRES RESISTANT A LA CORROSION ET ACIER TRES RESISTANT A LA CORROSION ET TRES APTE AU FA ONNAGE.

Publication

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Application

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Abstract (en)

This invention relates to steel of high corrosion resistance and workability, and more particularly to steel having high corrosion resistance and workability used in an exhaust system of an internal combustion engine for, for example, an automobile or a ship. Steel of a high corrosion resistance and steel of high corrosion resistance and processability in which not less than 0.01 % and less than 1.2% of Si, 0.1-1.5 % of Mn, 2.5-9.9 % of Cr and more than 3.0 % and up to 8.0 % of Al are contained; C, P, S and N are reduced to not more than 0.02%, not more than 0.03 %, not more than 0.01 % and not more than 0.02 % respectively; a total of 0.01-0.5 % of a combination of Nb, V, Ti, Zr, Ta and Hf is contained; a condition expression is satisfied; not less than one kind of element out of Cu, Mo, Sb, Ni, W, rare earth elements and Ca is contained; and the rest consists of Fe and unavoidable impurities.

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IPC 8 full level

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Cited by

DE19820806B4; EA008812B1; NO342666B1; US9970242B2; US9657365B2; WO2004097059A1; WO2013178629A1; US11833561B2; US8821653B2; US8926771B2; US8414715B2; US9187811B2; US8002910B2; US8007603B2; US11105501B2; US8328960B2; US11124852B2; US8636856B2; US9222156B2; US10844669B2; US8221562B2; US8328958B2; US11952648B2; US9644248B2; US9803256B2; US10378074B2; US10378075B2; US11377704B2

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