Title (en)
STEEL COMPOSITIONS FOR SPECIAL USES

Title (de)
STAHLZUSAMMENSETZUNGEN FÜR SPEZIELLE ANWENDUNGEN

Title (fr)
COMPOSITIONS D'ACIERS POUR USAGES SPECIAUX

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Application
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Abstract (en)

[origin: WO2007141427A2] The invention concerns steels having excellent resistance over time, in a corrosive atmosphere due to oxidizing environments such as, for example, fumes or water vapour, under high pressure and/or temperature. The invention concerns a steel composition for special applications, said composition containing, by weight, about 1.8 to 11% of chromium (and preferably between about 2.3 and 10% of chromium), less than 1% of silicon, and between 0.20 and 0.45% of manganese. It has been found that it is possible to adjust the contents of the composition based on a predetermined model, selected to obtain substantially optimal properties with respect to corrosion in specific conditions of high temperature performances. Said model can involve as additive of as residue at least one element selected among molybdenum, tungsten, cobalt, and nickel.

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