

Title (en)
CRYOGENIC AUSTENITIC HIGH MANGANESE STEEL HAVING EXCELLENT SURFACE QUALITY AND MANUFACTURING METHOD THEREFOR

Title (de)
KRYOGENER AUSTENITISCHER STAHL MIT HOHEM MANGANANTEIL MIT HERVORRAGENDER OBERFLÄCHENQUALITÄT UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)
ACIER INOXYDABLE AUSTÉNITIQUE CRYOGÉNIQUE À HAUTE TENEUR EN MANGANÈSE PRÉSENTANT UNE EXCELLENTE QUALITÉ DE SURFACE ET PROCÉDÉ DE FABRICATION ASSOCIÉ

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Abstract (en)
[origin: EP3872217A1] A cryogenic austenitic high manganese steel having excellent surface quality according to an aspect of the present invention comprises: in weight%, 0.4-0.5% of C; 23-26% of Mn; 0.03-0.5% of Si; 3-5% of Cr; 0.05% or less of Al; 0.05% or less of S; 0.5% or less of P; and 0.005% or less of B; and the balance being Fe and unavoidable impurities, and contains 95 area% or more of austenite as a microstructure, wherein under cross-sectional observation using a microscope, the number of surface flaws formed at a depth of 10 µm or more from the surface may be 0.0001 or less per unit area (mm²) from among the surface flaws observed in an area from the surface to a t/8 (where t means product thickness (mm)) point.

IPC 8 full level
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Citation (search report)
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