

Title (en)
OIL WELL PIPE FOR EXPANDABLE-TUBE USE EXCELLENT IN TOUGHNESS AFTER PIPE EXPANSION AND PROCESS FOR PRODUCING THE SAME

Title (de)
ÖLBOHRUNGSROHR ZUR VERWENDUNG IN EXPANDIERBAREN ROHREN MIT HERVORRAGENDER ZÄHIGKEIT NACH ROHREXPANSION UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
TUYAU DE Puits DE PÉTROLE POUR UTILISATION EN TUBE EXTENSIBLE D UNE EXCELLENTE ROBUSTESSE APRÈS EXPANSION DU TUBE ET PROCÉDÉ DE FABRICATION IDOINE

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Priority

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Abstract (en)
The invention provides an oil well pipe for expandable tubular applications excellent in post-expansion toughness and a method of manufacturing the oil well pipe. The oil well pipe for expandable tubular applications comprises, in mass%, C: 0.03 to 0.14%, Si: 0.8% or less, Mn: 0.3 to 2.5%, P: 0.03% or less, S: 0.01% or less, Ti: 0.005 to 0.03%, Al: 0.1% or less, N: 0.001 to 0.01%, B: 0.0005 to 0.003%, optionally comprises one or more of Nb, Ni, Mo, Cr, Cu and V, and further optionally comprises one or both of Ca and REM, satisfies the relationship $A = 2.7 C + 0.4 Si + Mn + 0.45 Ni + 0.45 Cu + 0.8 Cr + 2 Mo \neq 1.8$, has a balance of iron and unavoidable impurities, and is formed of tempered martensite structure. The manufacturing method according to the invention is characterized in subjecting a steel stock pipe of the foregoing composition to hardening from a temperature range of $A_c 3$ point + 30 °C or greater and to tempering at a temperature of 350 to 720 °C.

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