

Title (en)

METHOD FOR HOT WORKING OF Cr-CONTAINING STEEL

Title (de)

VERFAHREN ZUM WARMVERFORMEN VON CR-HALTIGEM STAHL

Title (fr)

PROCÉDÉ DE FAÇONNAGE À CHAUD D' UN ACIER CONTENANT DU Cr

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Application

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Abstract (en)

The hot-working method of Cr-containing steels by the invention, is characterized in that : a newly created surface in a Cr-containing steel is held in a steam atmosphere to form an oxide scale including FeO; and then, next processing step in hot-working is applied, whereas, more specifically, in producing seamless steel tubes, moisture is supplied into the inside of the hollow shell made by the piercing-rolling process to hold the newly created inside surface of the shell in the steam atmosphere, so that the oxide scale including FeO is formed on the shell inside surface: and then, next elongation-rolling process is applied. As such, the above entails just a concise operational procedure and simple device configuration, enabling to decrease the surface defects generated in hot-working and to extend the tool life dramatically. Hence, this invention can greatly contribute to efficiently manufacture Cr-containing steels, 5-18% Cr, which are in growing demand.

IPC 8 full level

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