Title (en)

STEEL

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Publication

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Application

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Abstract (en)

This is an invention in metallurgy, referring specifically to steel with high ductility in subzero temperatures, good weldability, resistance to brittle behavior and corrosion, heat-resistance in high temperatures. Such steel can be used for the production of oil pipelines, natural gas pipelines, product pipelines, offshore platforms, welded structures and containers which can operate under pressure, different equipment and its component parts operating in temperatures from - 100°C to +450°C. The steel containing carbon, manganese, silicium, chrome, nickel, vanadium, niobium, titanium, aluminium, calcium, sulphur, phosphorus, nitrogen, copper, stibium, stannum, arsenic and iron additionally includes molybdenum, with the following component ratio (weight, %): This being the case, total content of nickel and manganese is related to molybdenum and phosphorus content (weight. %) according to the following equation: Ni + Mn 1 + Mo # P #© 0.03

IPC 8 full level

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CPC (source: EP KR)

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