

Title (en)  
MARTENSITIC STEEL HAVING A Z-PHASE, POWDER AND COMPONENT

Title (de)  
MARTENSITISCHER STAHL MIT Z-PHASE, PULVER UND BAUTEIL

Title (fr)  
ACIER MARTENSITIQUE À PHASE Z, POUDRE ET ÉLÉMENT

Publication  
**EP 3443135 A1 20190220 (DE)**

Application  
**EP 17711187 A 20170317**

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Abstract (en)  
[origin: WO2017178188A1] The invention relates to a steel having the following composition: carbon (C): 0.08% - 0.12%, preferably 0.10%; silicon (Si): 0.04% - 0.08%; manganese (Mn): 0.08% - 0.012%; chromium (Cr): 9% - 11%; molybdenum (Mo): 0.4% - 1.0%; tungsten (W): 1.6% - 2.4%; cobalt (Co): 2.5% - 3.5%; nickel (Ni): 0.10% - 0.24%; boron (B): 0.006% - 0.01%; nitrogen (N): 0.002% - 0.01%; titanium (Ti): 0.008% - 0.03%; vanadium (V): 0.015% - 0.029%; niobium (Nb): 0.03% - 0.07%; optionally copper (Cu): 1.00% - 2.5%; aluminum (Al): 0.04% - 0.10%; the remainder being iron (Fe), wherein said steel has improved properties, since no further Z-phase formation occurs.

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