

Title (en)
HIGH-STRENGTH STEEL SHEET

Title (de)
HOCHFESTES STAHLBLECH

Title (fr)
TÔLE D'ACIER À HAUTE RÉSISTANCE

Publication
EP 3492610 B1 20210324 (EN)

Application
EP 16910563 A 20160729

Priority
JP 2016072316 W 20160729

Abstract (en)
[origin: EP3492610A1] A high strength steel plate has a predetermined chemical composition, and in this high strength steel plate, DI is 2.0 to 7.8, Pcm is 0.189% or greater, a microstructure includes one or both of martensite and bainite such that a total area fraction thereof is 99% or greater, prior austenite grains have an aspect ratio of 2.0 or greater, a number fraction of cementite having a length of 1.0 μm or greater in a long axis direction with respect to cementite having a length of 0.1 μm or greater in the long axis direction is 5% or less, a plate thickness is 4.5 mm to 20 mm, a yield strength is 885 MPa or greater, a tensile strength is 950 MPa or greater, a total elongation is 12% or greater, and a Charpy absorbed energy at -20°C is 59 J/cm.

IPC 8 full level
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