

Title (en)  
HIGH-STRENGTH STEEL SHEET

Title (de)  
ULTRAHOCHFESTES STAHLBLECH

Title (fr)  
TÔLE EN ACIER HAUTEMENT RÉSISTANTE

Publication  
**EP 3998366 A1 20220518 (EN)**

Application  
**EP 20836399 A 20200708**

Priority

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Abstract (en)

A high strength steel sheet according to the present invention contains a predetermined chemical composition, a metallographic structure includes, by an area ratio, ferrite: 20% to 70%, residual austenite: 5% to 40%, fresh martensite: 0% to 30%, tempered martensite and bainite: 20% to 75% in total, and pearlite and cementite: 0% to 10% in total, in a range of a 1/8 thickness to a 3/8 thickness from a surface, a number proportion of residual austenite having an aspect ratio of 2.0 or more with respect to the number of all residual austenite is 50% or more, at a sheet thickness 1/4 position of a cross section parallel to a rolling direction and perpendicular to the surface, a standard deviation of area ratios of ferrite measured at 10 points every 50 mm along a width direction is less than 10%, and a tensile strength is 780 MPa or more.

IPC 8 full level  
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CPC (source: CN EP KR US)

**C21D 1/19** (2013.01 - EP); **C21D 1/26** (2013.01 - CN EP); **C21D 6/001** (2013.01 - US); **C21D 6/002** (2013.01 - US); **C21D 6/005** (2013.01 - US); **C21D 6/007** (2013.01 - US); **C21D 6/008** (2013.01 - US); **C21D 8/0205** (2013.01 - CN EP US); **C21D 8/0226** (2013.01 - CN EP US); **C21D 8/0247** (2013.01 - CN); **C21D 8/0263** (2013.01 - EP); **C21D 8/0273** (2013.01 - EP); **C21D 8/0278** (2013.01 - EP); **C21D 9/46** (2013.01 - EP KR US); **C22C 38/001** (2013.01 - KR US); **C22C 38/002** (2013.01 - CN EP US); **C22C 38/005** (2013.01 - CN EP US); **C22C 38/02** (2013.01 - CN EP US); **C22C 38/04** (2013.01 - CN EP); **C22C 38/06** (2013.01 - CN KR US); **C22C 38/08** (2013.01 - EP); **C22C 38/10** (2013.01 - EP); **C22C 38/105** (2013.01 - US); **C22C 38/12** (2013.01 - EP US); **C22C 38/14** (2013.01 - US); **C22C 38/16** (2013.01 - US); **C22C 38/34** (2013.01 - CN EP); **C22C 38/38** (2013.01 - EP US); **C22C 38/42** (2013.01 - CN KR); **C22C 38/44** (2013.01 - CN KR); **C22C 38/46** (2013.01 - CN); **C22C 38/48** (2013.01 - CN KR); **C22C 38/50** (2013.01 - CN KR); **C22C 38/52** (2013.01 - CN); **C22C 38/54** (2013.01 - CN); **C22C 38/58** (2013.01 - CN KR); **C21D 1/78** (2013.01 - EP); **C21D 8/0242** (2013.01 - EP); **C21D 2211/001** (2013.01 - CN EP US); **C21D 2211/002** (2013.01 - CN EP US); **C21D 2211/005** (2013.01 - CN EP KR US); **C21D 2211/008** (2013.01 - CN EP US)

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