

Title (en)

High strength cold rolled steel sheet and method for manufacturing the same

Title (de)

Hochfestes kaltgewalztes Stahlblech und Methode für die Produktion desselben

Title (fr)

Tôle d'acier laminée à froid de haute résistance et méthode pour fabriquer la même chose

Publication

EP 1568791 A1 20050831 (EN)

Application

EP 05003676 A 20050221

Priority

JP 2004049034 A 20040225

Abstract (en)

The present invention relates to a high strength cold rolled steel sheet consisting of 0.015 % or less of C, 1.5 % or less of Si, 0.4 to 3 % of Mn, 0.15 % or less of P, 0.02 % or less of S, 0.1 to 1 % of sol.Al, 0.01 % or less of N, 0.2 % or less of Ti, by mass %, and the balance of Fe and inevitable impurities. In this steel sheet, $1 \leq (\text{Ti}/48)/(\text{C}/12 + \text{N}/14)$ is satisfied, in which M represents the content of the element M. Since having the superior deep drawability and the TS of 340 to 590 MPa, the high strength cold rolled steel sheet of the present invention is preferably used for automobiles parts difficult to be press formed, such as a side outer panel and a door inner panel. <IMAGE>

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IPC 8 full level

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