

ABSTRACT

[Title of Invention] HOT ROLLED STEEL SHEET WITH EXCELLENT FORMABILITY AND METHOD FOR MANUFACTURING THE SAME

A hot rolled steel sheet having an improved  $|\Delta r|$  without causing excessive coarse grain formation as well as having aging-resistance and soft/high ductile properties, and a method for manufacturing the same are provided. A hot rolled steel sheet contains, on a percent by mass basis, 0.03% to 0.07% of C, 0.1% or less of Si, 0.05% to 0.5% of Mn, 0.03% or less of P, 0.03% or less of S, 0.02% to 0.1% of sol. Al, 0.005% or less of N, less than 0.005% of Nb+Ti, 0.0003% to 0.0020% of B, and the balance being Fe and inevitable impurities. In this steel sheet, the average crystal grain diameter is in a range of 12 to 25  $\mu\text{m}$ , and  $|\Delta r| \leq 0.25$  and  $AI \leq 20$  MPa hold.

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