

ABSTRACT

STEEL PLATE AND METHOD OF PRODUCING SAME

5 Provided is a high-Mn steel having excellent reduction-of-area
property in a mid-thickness part. A steel plate comprises a chemical
composition containing, in mass%, C: 0.20 % or more and 0.70 % or less, Si:
0.05 % or more and 1.0 % or less, Mn: 15 % or more and 35 % or less, Al: 0.1
% or less, Cr: 8.0 % or less, N: 0.0010 % or more and 0.0500 % or less, P:
10 0.03 % or less, and S: 0.005 % or less, with a balance consisting of Fe and
inevitable impurities, wherein tensile strength is 600 MPa or more, absorbed
energy at -196 °C is 27 J or more, and reduction of area in a thickness
direction of the steel plate is 30 % or more.

15 (No Suitable Figure)