

Title (en)
DUPLEX STAINLESS STEEL PLATE HAVING EXCELLENT PRESS MOLDABILITY

Title (de)
DUPLEX-EDELSTAHLPLATTE MIT HERVORRAGENDER DRUCKFORMBARKEIT

Title (fr)
TÔLE D'ACIER INOXYDABLE DUPLEX AYANT UNE EXCELLENTE APTITUDE AU MOULAGE À LA PRESSE

Publication
EP 2410068 A4 20170503 (EN)

Application
EP 10753622 A 20100317

Priority
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Abstract (en)
[origin: EP2410068A1] The present invention provides a duplex stainless steel sheet with excellent press-formability which defines the ingredients of the steel, Ni balance, and austenite phase rate to obtain a 0.2% proof stress and Erichsen value equal to that of SUS304 or another austenitic stainless steel, that is, a duplex stainless steel sheet which contains, by mass%, C: 0.05% or less, Si: 0.5 to 3%, Mn: 1 to 5%, Cr: 16 to 21%, Ni: 1 to 6%, Cu: 0.5 to 3%, and N: 0.07% or less, has an Ni-bal. value given by the following formula <1> of -7.5 to -3.5, has a balance of Fe and unavoidable impurities, has an austenite phase rate of 50% to 95%, and has a balance of ferrite phases: #####Ni-bal.=30(C+N)+Ni+0.5Mn+0.3Cu-1.1(Cr+1.5Si)+8.2#####<1>

IPC 8 full level
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CPC (source: EP KR US)
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Citation (search report)
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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

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