

Title (en)  
DUPLEX STAINLESS STEEL PIPE AND METHOD FOR MANUFACTURING SAME

Title (de)  
DUPLEXEDELSTAHLROHR UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)  
TUYAU EN ACIER INOXYDABLE DUPLEX ET SON PROCÉDÉ FABRICATION

Publication  
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Application  
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Abstract (en)  
Provided herein is a duplex stainless steel pipe that is high in strength and has excellent abrasion resistance and indentation resistance on inner and outer surfaces of the steel pipe. A method for manufacturing such a stainless steel pipe is also provided. A duplex stainless steel pipe of the present invention has a composition that contains, in mass%, C: 0.005 to 0.150%, Si: 1.0% or less, Mn: 10.0% or less, Cr: 11.5 to 35.0%, Ni: 0.5 to 15.0%, Mo: 0.5 to 6.0%, N: less than 0.400%, and the balance being Fe and incidental impurities, and has a microstructure with a ferritic phase and an austenitic phase, the duplex stainless steel pipe having an axial tensile yield strength of 689 MPa or more, and having an outer surface and an inner surface each having an oxide layer having an average thickness of 1.0  $\mu\text{m}$  or more.

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