

ABSTRACT

FLUX-CORED WIRE FOR GAS-SHIELDED ARC WELDING

A wire includes, in mass% with respect to the total mass of the wire, in the total of a flux and a steel sheath, 0.04 to 0.12% of C, 0.3 to 0.8% of Si, 1.5 to 3.0% of Mn, 0.2 to 1% of Ni, 0.8 to 1.4% of Al in terms of Al_2O_3 and Al_2O_3 in total and 0.3 to 0.6% of Al, and 0.004 to 0.012% of B, and further includes, in the flux, 5.0 to 7.0% of Ti oxide in terms of TiO_2 , 0.2 to 0.6% of Si oxide in terms of SiO_2 , 0.4 to 0.7% of Zr oxide in terms of ZrO_2 , 0.1 to 0.5% of Mg, 0.02 to 0.1% of Na compound in terms of Na_2O , and 0.04 to 0.1% of K compound in terms of K_2O .

[No Figure]