

ABSTRACT

FLUX-CORED WIRE FOR GAS-SHIELDED ARC WELDING

A flux-cored wire for gas-shielded arc welding, including, in terms of mass% relative to a total mass of the wire, in the total of the steel outer sheath and the flux, C: 0.03 to 0.08%, Si: 0.1 to 0.6%, Mn: 1.5 to 2.8%, Cu: 0.01 to 0.5%, Ni: 0.35 to 0.98%, Ti: 0.05 to 0.25%, and B: 0.002 to 0.015%, Al: 0.05% or less, and including, in the flux, TiO_2 conversion value: 3 to 8%, Al_2O_3 conversion value: 0.1 to 0.6%, SiO_2 conversion value: 0.2 to 1.0%, ZrO_2 conversion value: 0.20 to 0.65%, Mg: 0.2 to 0.8%, F conversion value: 0.05 to 0.25%, Na conversion value: 0.02 to 0.10%, and K conversion value: 0.05 to 0.20%.

[No figure]