

ABSTRACT

FLUX-CORED WIRE FOR CARBON DIOXIDE GAS SHIELDED ARC WELDING

A flux-cored wire for carbon dioxide gas shielded arc welding including, in terms of % by mass with respect to a total mass of the wire, 0.03 to 0.08% of C, 0.2 to 0.7% of Si, 1.4 to 3.0% of Mn, 0.01 to 0.5% of Cu, 0.8 to 3.0% of Ni, 0.05 to 0.5% of Ti, 0.002 to 0.015% of B, 0.05% or less of Al, 4 to 8% in terms of TiO_2 , 0.1 to 0.6% of in terms of SiO_2 , 0.02 to 0.3% in terms of Al_2O_3 , 0.1 to 0.8% of Mg, 0.05 to 0.3% in terms of F, 0.05 to 0.3% in terms of Na and K in a fluorine compound, 0.05 to 0.2% of Na_2O and K_2O , and 0.2% or less in terms of ZrO_2 .

[Figure 1]