

ABSTRACT

The purpose of the present invention is to provide a flux-cored wire that can provide a weld metal having an excellent strength and toughness after PWHT and also an excellent resistance to SR cracking and that exhibits an excellent welding workability. The present invention relates to a flux-cored wire for gas shield arc welding, for which the contents of Fe, TiO₂, Mn, Cr, Mo, Si, Mg, fluoride, C, V, Nb, and B, per the total mass of the wire, are limited to prescribed ranges and for which the contents of Mn, C, and V, per the total mass of the wire, satisfy the relationship $28 \times \text{Mn} / (390 \times \text{C} + 2370 \times \text{V}) \geq 0.82$.