

ABSTRACT

The present invention pertains to a flux cored wire for gas shield arc welding that: contains, based on the total mass of wire, at least 80% by mass Fe and at least one among 0.03%-0.12% by mass C, 0.20%-0.70% by mass Si in terms of Si in an Si alloy and an Si
5 compound, 1.0%-4.0% by mass Mn, 2.4%-4.5% Ti in terms of Ti in a Ti alloy and a Ti compound, 0.005%-0.050% by mass Al, 0.03%-1.0% by mass Ca, 0.30%-3.50% by mass Ni, and 0.0008%-0.012% by mass B; and fulfills $(\text{Ti} + \text{Mn} + \text{Al} + \text{Ca})/\text{Si} \geq 12$ and Ca/Si : 0.07-0.35.