

ABSTRACT

The present invention pertains to a flux-cored wire for gas shield arc welding containing, with respect to the total mass of the wire: 0.03-0.12 mass% of C; 0.20-0.70 mass% of Si in terms of the Si in a Si alloy and a Si compound; 1.0-4.0 mass% of Mn; 5 2.4-4.5 mass% of Ti in terms of the Ti in a Ti alloy and a Ti compound; 0.005-0.050 mass% of Al; 0.01-0.10 mass% of Li in terms of the Li in a Li alloy and a Li compound; at least one among 0.30-3.50 mass% of Ni and 0.0008-0.012 mass% of B; and 80 mass% or more of Fe, wherein $\text{Li/Si} \geq 0.05$ is satisfied.