

ABSTRACT

A wire containing flux for gas shield arc welding, containing, per total mass of a wire, respectively specific amounts of TiO_2 , C, at least one of Si and oxides of Si (in terms of Si content), ZrO_2 , Mn, Al, NaF, at least one of B and oxides of B (in terms of B content), Mg, and MgO ; the sum of the amount of Na compounds other than NaF in terms of Na content and the amount of K compounds in terms of K content, and the amount of F compounds other than NaF in terms of F content, respectively being within a specific range; and the relationship $5.00 \leq [\text{TiO}_2]/[\text{Al}] \leq 70.00$ being satisfied, where $[\text{TiO}_2]$ is the TiO_2 content and $[\text{Al}]$ is the Al content.