

ABSTRACT OF THE DISCLOSURE

FLUX CORED WIRE FOR GAS SHIELDED ARC WELDING

Provided is a flux cored wire for gas shielded arc welding that has excellent resistance to hygroscopicity and adequate welding workability and can produce weld metal with excellent mechanical properties. The flux cored wire for gas shielded arc welding is formed by filling a flux into a steel outer sheath, in which the flux contains acid-soluble Mg, a content of the acid-soluble Mg in a first flux component having a particle diameter of 75 μm or less in the flux is set at 0.1 to 5% by mass relative to the total mass of the first flux component, a content of the acid-soluble Mg in a second flux component having a particle diameter of more than 75 μm and 106 μm or less in the flux is set at 0.1 to 7% by mass relative to the total mass of the second flux component, and a content of the acid-soluble Mg in a third flux component having a particle diameter of more than 106 μm in the flux is set at 1 to 15% by mass relative to the total mass of the third flux component.

Fig. 1