

## FG-50M Metal Cored Wire for Gas Shielded Arc Welding\*

# (2) Compared with the conventional fluxed wire, the 1 Introduction slag generation of FG-50M has become significantly smaller, because the flux composition is mainly Metal cored wire which contains, in the wire, flux that metallic powder, thereby permitting continuous mulmainly consists of metal powder, gives a smaller amount tilayer welding. of spatter compared with the solid wire, and the amount of slag generated is also smaller compared with that of the conventional wire. In view of these facts, the metal

widely in the field where improvement in welding efficiency is desired.

Kawasaki Steel also has newly developed FG-50M metal\_cored wire\_for gas shielded arc welding by

#### 3.1 Standards and Dimensions

The JIS Standard of FG-50M corresponds to YFW-C 50 DM. Standard wire sizes, packaged weights, and

#### 3.2.1 Welding conditions

The welding conditions of FG-50M are shown in **Table 2**. For the welding machine, DC power of the thyristor control type was used and DC reversed polar.

### 3.3.1 Amount of spatter generated

Regarding the spatter generated during welding, a comparison was made between FG-50M and solid wire

ity was adopted. Further, for the shield gas, carbon dioxide was used.

Compared with the YGW 11 solid wire, the weld spatter of FG-50M has become less, as shown in Fig. 2. By the above, obstacles to welding efficiency such as spatter adhesion to the steel plate have been removed, and reduction in man hours to remove the spetter has

