Typical applications

Butt and fillet welding of mild steel & 540N/m² class high tensile strength steel. Construction Equipment, Bridges and Building

Characteristics on Usage

① Excellent Mechanical Properties are obtained under High heat Input (40kj/cm) and interpass temp. (350°C) for 490Nmm².class steel welding

AWS ER705-G JIS YGW18 ZO-55

- 2 Increasing Productivity due to higher Heat Input and Interpass Temperature.
- ③ It is suitable to use shielding gas of 20 to 25 /min.
- ④ Distance between a base plate and contact tip must be kept at around 6 ~15mm with current less than 250A, and around 15 ~ 25mm with current over than 250A.
- ⑤ Wind screen must be set at the welding in the place with strong wind

Typical chemical composition of wire (%)

C	Si	Mn	Ti
0.07	0.92	1.92	0.18

Typical mechanical properties of all-weld-metal

Shielding		Τ·S	EI	IV	Welding
Gas	N/mm²{kgf/mm²}	N/mm²{kgf/mm²}	(%)	J {kgf · m} (0°C)	Condition
CO2	580 {59}	640 {65}	27	170 {17}	18KJ/cm,150°C
	470 {48}	560 {57}	29	120 {12}	40KJ∕cm,350℃

Sizes available and recommended currents (DC wire⊕)

Dia.	. (mm) 1.2		1.4	1.6	
Amp.	F	100~350	140~400	200~550	
	V&OH	50~180	100~250	120~300	

Package

Dia.	(mm)	0.8	0.9	1.0	1.2	1.4	1.6	
Spool	(kg)	5, 15, 20						
Pailpack	(S)		200, 250		250, 300, –		-	
Pailpack	(B)		-		350,400,450			

Approved by