

Applications

SM-100 is a 0.3Cr-1.7Ni-0.25Mo-alloyed, bare, solid wire for the GMAW of high strength steels with low-temperature impact toughness requirements.

Characteristics on Usage

Characteristic features include excellent start properties, trouble-free feeding at high wire speeds and lengthy feed distances, a very stable arc at high welding currents, extremely low levels of spatter, low fume emission, reduced contact tip wear and improved protection against corrosion of the wire.

Notes on Usage

- ① Use with 100%Ar or Ar+2~20%CO2 gas.
- ② Flow quantity of shielding gas should be 25 \(\mathbb{l} / \text{min. approximately.} \)
- 3 Use the wind-screen against wind.

Shielding Gas	Current					
Ar + CO ₂ (M21)	Pulse					

Typical Chemical Composition of Wire (%)

С	Si	Mn	Р	S	Cr	Ni	Мо	V	Fe
0.081	0.48	1.76	0.014	0.012	0.28	1.76	0.23	0.09	Rem.

Typical Mechanical Properties of All-Weld Metal

YS	TS	EL	Temp.	CVN-Impact Value
MPa(lbs/in²)	MPa(lbs/in²)	(%)	℃ (℉)	J (ft · lbs)
670 (97,300)	800 (116,000)	17.2	-20 (-4) -40 (-40)	42 (31) 40 (30)

Approval	al I Packing (Including Ball Pac)							
	Dia. (mm) (in)	1.0 .039	1.2 .045	Spool(kg)		12.5 15 28 33		

Sizes Available and Recommended Currents (Amp.)

Size mm (in)	1.2 (.045)	
F & HF	170 ~ 270	