## Applications

Typical industrial applications include shipbuilding, machinery, piping, bridge, structural fabrication and building.

## **Characteristics on Usage**

SC-91P is a rutile-type flux cored wire to be used with Ar+CO<sub>2</sub> gas mixture shielding. Provide an exceptionally smooth and stable arc with a fast freezing slag system, this wire is ideal for pipe welding. Bead shape and appearance are excellent in all position welding.

## Notes on Usage

- ⑦ Proper preheating 50~150℃(122~302°F) and inter-pass temperature must be used in order to release hydrogen which may cause cracking in weld metal when electrodes are used for medium and heavy plates.
- ② One-side welding defects such as hot cracking that may occur with wrong welding parameter such as high welding speed.
- ③ Use Ar+20~25%CO₂ gas.

Welding Position	Current	Shielding Gas
	DC +	Ar+20~25%CO <sub>2</sub>

1G 2F 3G 4G (PA) (PB) (PF) (PE)

Туріс	al Chem	ical Cor	npositio	n of All-\	Neld Me	etal (%)
С	Si	Mn	Р	S	Ni	Мо
0.05	0.45	1.30	0.013	0.010	0.85	0.22

<b>Typical Mechanica</b>	l Properties o	f All-Weld Metal
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YS	TS	EL	Temp.	CVN-Impact Value
MPa(lbs/in²)	MPa(lbs/in²)	(%)	℃ (°F)	J (ft · lbs)
640 (92,900)	680 (98,700)	26.0	0 (32)	80 (59)

Approval	l Packing				
	Dia. (mm) (in)	1.2 .045	Spool(kg) (lbs)	12.5 28	

Sizes Available and Recommended Currents (Amp.)		
F & HF	120~300	
V-up, OH	120~260	
V-down	180~280	