## S-800P × M-12K[H-14]

TYPE : Neutral

## Applications

Butt and flat fillet welding of buildings, bridges and API Line-pipe.(longitudinal)

## **Characteristics on Usage**

S-800P is a basic applomerated, slightly Si-alloving flux for submerged arc welding, specially for single and multi-pass butt welding of mild, medium and high tensile steels.

It provides good bead appearance, better slag removal and high impact value of the weld metal together. It is relatively insensitive to rust and dirt on a base metal, and makes better resistance to pockmark and pit.

As the consumption of flux is low, it is very economical.

## Notes on Usage

(1) Drv the flux at 300~350° C (572~662° F) for 60 minutes before use.

(2) When the flux height is excessive, poor bead appearance may occur.

③ Use welding current and speed as low as possible at the first layer of groove to avoid cracking.

Appro	val	l			l Cur	rent	l Basio	I Basicity Index						
					AC, DC +		1.9							
Туріса	Typical Chemical Composition of All-Weld Metal (%)													
Wire	С	Si	Mn	Р	S									
M-12K	0.08	0.47	1.06	0.024	0.012									
H-14	0.10	0.29	1.56	0.022	0.011									
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Туріса	Il Mecha	anical Pr	operties	s of All-V	Veld Me	tal								
Wire	YS		TS		EL		CVN-Impact V	alue J (ft · lbs)						
	MPa(lbs/in <sup>2</sup> )		MPa(lbs/in <sup>2</sup> )		(%)	-	30℃(-22°F)	-50°C(-58°F)						
M-12K	460 (6	460 (66,800)		540 (78,400)			80 (59)	-						
H-14	490 (71,100)		570 (82,800)		30.0		120 (88)	80 (59)						
Typics	l Woldi	ng Cond	litions											

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Wire	Dia. (mm)	Th. (mm)	Groove Design (mm)	Pass	Amp. (A)	Volt.	Speed (cm/min)	Remarks
M-12K (H-14)	4.8	20	80° Out 6.0 8.0 6.0 8.0 6.0 In	1st 2nd	800 900	34 36	40 35	Both Side Single-pass