

S-312.16

Type : Basic

Conformances

AWS A5.4/ ASME SFA5.4 E312-16

JIS Z3221 ES312-16

EN ISO 3581-A-E 29 9 R

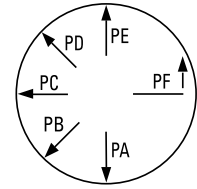
Applications

- Welding of dissimilar steels
- Buffer layer for bulid-up

Features

- Good crack resistance
- Excellent buffer effect against stress
- Easy to remove slag

Welding Position



Current

AC or DC ±

Redrying Conditions

350°C (662°F) X 1hr

Diameter / Packaging

Diameter	Length	P.V.C	
		packet	carton
mm (in)	mm (in)	2.5kg(5.5lbs)	10kg(22lbs)
2.6 (3/32)	350 (14)	✓	
3.2 (1/8)	350 (14)	✓	
4.0 (5/32)	400 (16)	✓	
5.0 (3/16)	400 (16)	✓	
6.0 (15/64)	450 (18)	✓	

Typical Chemical Composition of All-Weld Metal (%)

C	Si	Mn	P	S	Cr	Ni
0.11	0.49	1.41	0.021	0.013	29.5	9.5

Typical Mechanical Properties of All-Weld Metal

TS	EL
MPa(lbs/in ²)	(%)
803 (116,600)	22.0

Typical Welding Parameters / Amp.(A)

Diameter mm (in)	2.0 (5/64)	2.6 (3/32)	3.2 (1/8)	4.0 (5/32)	5.0 (3/16)
Length mm (in)	300 (12)	300 (12)	350 (14)	350 (14)	350 (14)
F & HF	25-55	50-85	70-115	95-145	135-180
V-up, OH	20-50	45-80	65-110	85-135	-

SMW

SAW

GMW

GTAW

FCAW

Non-FERROUS

APPENDIX