CSF-460S

For Y.P460N/mm² class high strength steel and low temperature steel

AWS A5.29 E81T1-K2C KS D 7104 YFL-C506R JIS Z3313 T576T1-1CA-N3-H5

Applications

Butt, fillet welding of Y.P460N/mm² class high strength steel and low temperature steel of structure such as ships, offshore and LPG carrier etc.

Characteristics

- (1) CSF-460S is a titania type flux cored wire and designed for all-position welding by single pass & multi pass with CO₂ gas shielding.
- (2) It provides the excellent usability with stable arc, less spattering, good bead appearance, better slag removal, and less quantity of welding fume comparable to solid wire.
- (3) It provides excellent impact value at low temperatures down to -60°C.
- (4) It provides excellent CTOD value at low temperatures down to -10°C.

Notes on usage

- (1) The optimum flow of CO₂ for shielding is 20~25ℓ/min.
- (2) The distance between tip & base metal is to be 20~25mm.
- (3) Protect the weld with a screen to prevent blowholes caused by wind where the wind velocity is 2m/sec and more.
- (4) Thick heavy plate should be welded under proper preheating & interpass temperature.

Typical chemical composition of weld metal (%)

(Shielding gas: 100%CO2)

C	Mn	Si	Р	S	Ni
0.05	1.40	0.40	0.011	0.010	1.6

Typical mechanical properties of weld metal

(Shielding gas: 100%CO2)

YP	TS N/mm²(MPa)	EL %	IV (J)	
N/mm ² (MPa)			-50℃	-60℃
540	610	29	120	100

Size & recommended current range (DC+)

Dia	. mm (in)	1.2(0.045)	1.4(0.052)
Amp.	F & H-F	180~340	200~360
	V-up	120~220	140~260
	V-down	120~240	140~260
	OH	120~220	140~260

[•] Approval : ABS, DNV, KR, LR