CSM-80T

For 550N/mm² class high tensile strength steel

AWS A5.29 E80T1-GC KS D 7104 YFW-C55DM JIS Z3313 T553T15-0CA-N2-H10

Applications

Butt, fillet welding of 550N/mm² high tensile strength steels of structure such as ships, bridges, buildings and storage tanks etc.

Characteristics

- (1) CSM-80T is a metal type flux cored wire for flat & horizontal fillet welding with CO₂ gas shielding.
- (2) Its deposition rate is 10~30% higher compared with a solid wire, so total cost is saved.
- (3) It provides excellent usability with stable arc, less spattering better bead appearance and less quantity of welding fume comparable to solid wire.

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 15~25mm.
- (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)

С	Mn	Si	Р	S	Ni	Мо
0.06	1.33	0.65	0.012	0.012	0.90	0.10

Typical mechanical properties of weld metal

(Shielding gas: 100%CO₂)

YP	TS	EL	IV (J)	
N/mm ² (MPa)	N/mm ² (MPa)	%	-20℃	-30℃
532	625	26.4	73	63

Size & recommended current range (DC+)

Dia. mm (in)		1.2 (0.045)	1.4 (0.052)	1.6 (0.062)
Amp.	F & H-F	180~340	200~360	200~400