



MASTERWELD

The Welder's Ultimate Choice

MW71T-1

Flux Cored Welding Wire

For mild steel and 490N/mm² class high tensile strength steel

AWS A5.20 E71T-1C
ASME SECT II PART C- 2017
SFA-5.20 E71T-1C
EN ISO 17632 - A T46 2 P C 1

Applications & Features

MW71T-1 flux cored wire is suited to butt, fillet welding of mild steel & 490N/mm² high tensile strength steels of structure such as ships, bridges, buildings and storage tanks etc.

Characteristics

- (1) MW71T-1 is a titania type flux cored wire and designed for all-position welding by single pass & multi pass with CO₂ and mixed 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 a good welding efficiency thanks to high deposition rate particularly.



Welding Position:

All positions

Approvals:

ABS BV DNV GL NK LR

Notes on Usage

- (1) The optimum flow of Argon/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: Argon/CO₂)

C	Mn	Si	P	S
0.05	1.25	0.58	0.013	0.010

Typical mechanical properties of weld metal (Shielding Gas: Argon/CO₂)

YP N/mm ² (MPa)	TS N/mm ² (MPa)	EL %	IV (J)	
			0°C	-20°C
517	574	29	109	74

Size & recommended current range (DC+)

Amp	Dia. mm (in)	1.2 (0.045)	1.4 (0.052)	1.6 (0.062)
	FLAT, H-FILLET	180~340	200~360	200~400
	V-UP	120~220	140~260	160~260
	V-DOWN	120~240	140~260	160~280
	O, H	120~220	140~260	160~260