ST-50.3

Applications

Butt and fillet welding of carbon steel for pressure vessels, tubes for nuclear reactors, ships, penstock and aluminum-killed steel for low temperature service.

Characteristics on Usage

ST-50.3 is a wire for TIG welding with pure Ar gas. All position welding and steel sheet welding can be performed quite easily.

Typical Chemical Composition of Wire (%)						
С	Si	Mn	Shielding Gas			
0.07	0.65	1.15	Ar			

Typical Mechanical	d Metal		
YS MPa(Ibs/in²)	TS MPa(lbs/in²)	EL (%)	CVN-Impact Value J(ft.lbs) -20℃ (-4°F)
495 (71,800)	565 (81,950)	26	170 (125)

Typical Welding Conditions (DC-)							
Size mm(in)	Currents A	Gas Flow (ℓ /min.)	Shielding gas				
1.2 (.045) ~ 2.0 (5/64)	50 ~ 100		Ar				
1.6 (1/16) ~ 3.2 (1/8)	100 ~ 200	05					
2.4 (3/32) ~ 3.2 (1/8)	200 ~ 300	25					
3.2 (1/8)	300 ~ 400						

Approval

ABS