SMT-625

Applications

- ① Used for high-alloy steel, heat-resistant steel, 9%Ni steel and similar steel with high notch toughness at extra-low temperatures.
- ② Used for welding heat resisting alloys including Inconel 601, Incoloy 800/800H or combination of these with other alloys for furnace equipments, petrochemical plants and power generation plants.

Characteristics on Usage

- ① SMT-625 is a wire with about 68%Ni+22%Cr+9%Mo+3.5%Nb for strong tough corrosion and heat resistant deposit.
- ② No preheat required and maximum interpass of 250°C(482°F). When welding superaustenitic alloys the interpass temperature should be controlled to a maximum of 100°C(212°F).

Shielding Gas

Ar. Ar + He

Typical Chemical Composition of Wire (%)

С	Si	Mn	Р	S	Cr	Ni	Мо	Nb+Ta
0.02	0.20	0.03	0.006	0.001	22.0	64.0	9.00	3.60

Typical Mechanical Properties of All-Weld Metal

TS	EL	Temp.	CVN-Impact Value
MPa(lbs/in²)	(%)	℃ (℉)	J (ft · lbs)
770 (111,000)	40	-196 (-321)	100 (75)

Packing						
	MIG	Size(mm)	1.0	1.2	1.4	1.6
SMT-625	IVIIO	Weight	Spool: 12.5kg			
31011-023	TIG	Size(mm)		2.0	2.4	3.2
	110	Weight	5kg*1,000mm			

Approval

ABS, GL, LR, DNV, NK, BV, KR