Applications

- ① Mainly used for welding high-strength aircraft components, liquid rocket components, jet engine parts and nuclear power plants involving cryogenic temperatures.
- (2) Used for welding alloys 718, 706 and X-750`.

Characteristics on Usage

① This is a high-strength, high-temperature resistant and corrosion resistant nickel-chromium alloy.

It is suitable for use at cryogenic temperatures and also for use in air up to 1300° F. The alloy is readily worked and can be age-hardened.

(2) Precautions should be taken with high heat input processes to avoid microfissuring.

Typical Chemical Composition of Wire (%)										
С	Si	Mn	Р	S	Cr	Ni	Мо	Fe	Nb+Ta	Ti
0.04	0.2	0.25	0.004	0.001	19.0	53	3.1	Rem.	5.05	1.0

Typical Mechanical Properties of All-Weld Metal (Shielding Gas: Ar+He)							
YS MPa(lbs/in²)	TS MPa(lbs/in²)	EL (%)					
630 (91,400)	860 (123,900)	27					

Typical Welding Conditions (Pulse)								
Dia (mm)	Amp (A)	Vol (V)	Cpm (cm/min)	Gas Flow (ℓ /min)	Shielding Gas			
1.2	250	26	30	25	Ar +30% He			
1.6	300	29	35	25	AI +30 % He			