# **SM-312**

### **Applications**

Mig Welding of 29%Cr-9%Ni stainless steel and dissimilar metals

#### **Characteristics on Usage**

Due to high Cr content, it has excellent resistance to corrosion.

This wire contains a high ferrite level in its austenitic structure thus providing better crack resistance.

SM-312 is suitable for the welding of dissimilar metal such as stainless steels, mild steels and low alloy and used build up of hardfacing.

#### Typical Chemical Composition of Wire (%)

С	Si	Mn	Cr	Ni
0.10	0.38	1.68	30.0	8.8

## Typical Mechanical Properties of All-Weld Metal

TS	EL
MPa(lbs/in²)	(%)
720 (104,400)	32

#### Typical Welding Conditions (DC+) Size Gas Flow Speed Α ٧ Remarks (cm/min.) mm(in) (2 /min.) 1.2 (.045) 250 26 Shielding gas 30 25 1.6 (1/16) 300 29 35 25 100%Ar or Ar+2%O2