# **SMT-686**

Type: MIG/TIG

## Conformances

AWS A5.14/ ASME SFA5.14 ERNiCrMo-14

## Applications

 Mainly used for welding Super-Duplex, Super-austenitic stainless seels, as well as Nickel alloys(UNS N06059, N06022, C-276, 22, 625, 686)

## Features

- This is a capable of being used to deposit overlays of outstanding corrosion-resistance onto a range of steels.
- SMT-686 is suitable for use at requring general corrosion resistance in HCl or sulfuric acid.

## **Welding Position**

## Current

GMAW: DC+(Pulse)
GTAW: DC-

# **Shielding Gas**

Ar, Ar+He

# Diameter / Packaging

Diameter	MIG	TIG
mm (in)	12.5kg (27.6lbs)	5kg (11lbs)
1.0 (0.039)	$\sqrt{}$	
1.2 (0.045)	$\checkmark$	
1.6 (1/16)	$\checkmark$	$\checkmark$
2.0 (5/64)		$\checkmark$
2.4 (3/32)		$\checkmark$
3.2 (1/8)		$\checkmark$

# Typical Chemical Composition of the Wire (%)

C	e;	Mo	D	c	Ni	ر ر	Mo	Eo	\\/
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0.008	0.07	0.31	0.001	0.001	58.2	22.13	15.17	0.28	3.17

## Typical Mechanical Properties of All-Weld Metal

YS	TS	EL	Temp	CVN-Impact Value
Mpa(lbs/in²)	Mpa(lbs/in²)	(%)	°C(°F)	J (ft·lbs)
-	816 (118,000)	40.2	-196 (-321)	91 (67)