

# TGA-17

AWS A5.14 ERNiCrMo-4  
ISO 18274 SNi6276  
JIS Z 3334 YNiCrMo-4

## Characteristics and Applications:

TGA-17 is containing less C and Si for reducing carbide precipitation in grain boundary, it is designed for welding nickel-chromium-molybdenum base metal to itself, to steel, and to most other nickel-base alloys. TGA-17 is excellent corrosion resistance in many harsh conditions and is particularly resistant to crevice corrosion and pitting. This wire is well suited for pipelines, pressure vessels, chemical processing plants, offshore oil and gas facilities, and marine environments. It is also suitable for HASTELLOY C-276 and dissimilar metal and Ni-Cr-Mo corrosion-resistant alloy welding. Proper base metals include ASTM B574/575/619/622/626.

## Notes on usage:

1. Be sure to clean up the contaminations on the base metal, groove and pass to pass with stainless steel brush.
2. 100% Argon shielding gas with 99.997% high purity is recommended and the flow rate must be properly controlled.

## Typical chemical composition of weld metal (wt%):

C	Mn	Si	P	S	Cr	Ni	W	Fe	Mo
0.01	0.50	0.06	0.003	0.002	16.0	57.0	3.5	5.63	15.8

## Typical mechanical properties of weld metal:

Tensile strength MPa(ksi)	Elongation %
740(107)	39

## Sizes available:

Diameter (mm)	1.6	2.0	2.4
Length (mm)	915		

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