



ERNiCrMo-13

Shanti Metal Supply Corporation ERNiCrMo-13 (59)

AWS CLASS ERNiCrMo-13

CODE & SPECIFICATION DATA:

AWS A5.14 ASME SFA 5.14

TYPICAL DEPOSIT COMPOSITION (Wt %)	
Element	Composition (%)
Aluminum (Al)	0.2
Carbon (C)	0.005
Chromium (Cr)	23
Iron (Fe)	0.5
Manganese (Mn)	0.3
Molybdenum (Mo)	16
Nickel (Ni)	59
Phosphorous (P)	0.01
Silicon (Si)	0.005
Sulfur (S)	0.003

Description

Shanti Metal Supply Corporation ERNiCrMo-13 is a nickel-chromium-molybdenum alloy with low carbon and silicon content. It offers excellent *corrosion resistance, high strength, & thermal stability*. Free from tungsten, it resists grain-boundary precipitation during welding and hot forming. Ideal for chemical processing in oxidizing & reducing environments, it ensures exceptional weldability with minimal hot cracking sensitivity.

TYPICAL MECHANICAL PROPERTIES	
Property	Value
Ultimate Tensile Strength	110,000 psi
Percent Elongation	45%





TYPICAL WELDING PARAMETERS				
Process	Diameter	Amperage (A)	Volts (V)	Shielding Gas
GTAW	1/16"	80-110	-	100% Argon
	3/32"	90-130	-	100% Argon
	1/8"	120-175	-	100% Argon
	5/32"	150-220	-	100% Argon
	GMAW	.035"	150-190	26-29
	.045"	180-220	28-32	75% Argon / 25% Helium
	1/16"	200-250	29-33	75% Argon / 25% Helium
SAW	3/32"	275-350	28-30	Suitable Flux
	1/8"	350-450	29-32	Suitable Flux

Notice

Test results are based on controlled lab conditions per American Welding Society standards. Actual results may vary due to factors like electrode size, plate chemistry, environment, weldment design, fabrication methods, and welding procedures. These results are not guaranteed for field use. The manufacturer disclaims any warranty of merchantability or fitness for a specific purpose regarding its products.

