

ERNiCrMo-4 Filler Metal

For Welding Alloy C-276 and Related Alloys

ERNiCrMo-4 filler metal is designed for gas-tungsten-arc (GTAW) and gas-metal-arc (GMAW) welding of nickel-chromium-molybdenum alloys such as Alloy C-276. It is also suitable for surfacing on steel. The weld metal provides excellent corrosion resistance in aggressive environments, with strong resistance to pitting and crevice corrosion.

This filler metal is suitable for dissimilar welding between nickel alloys, stainless steels, and low-alloy steels, including welding to 9% Ni steels. Submerged-arc welding and overlay applications can be performed using suitable flux systems. demanding chemical, petrochemical, and marine applications.

Specification

AWS A5.14 ERNiCrMo-4 (UNS N10276)
 ASME II, Part C, SFA-5.14, ERNiCrMo-4 (UNS N10276)
 ASME IX, F-No.43

2.4886

*BS 2901 NA48

*DIN 1736 SG-NiMo16Cr16W (2.4886)

*(EN) ISO 18274 – SNi6276 (NiCr15Mo16Fe6W4)

Custom specifications available upon request.

For information regarding certifications and industry approvals, please contact our Technical Department.

Limiting Chemical Composition

Element	Ni+Co	C	Mn	Fe	P	S	Si
Content(%)	Remainder	0.02 max	1.0 max	4.0-7.0	0.04 max	0.03 max	0.08 max
Element	Cu	Co	Cr	Mo	V	W	Others
Content(%)	0.50 max	2.50 max	14.5-16.5	15.0-17.0	0.35 max	3.0-4.5	0.50 max

Minimum Mechanical Properties

Property	Value
Tensile Strength, psi	100,000
MPa	690
Elongation, (4d) %	30

Available Product Forms

mm in	0.8 0.030	0.9 0.035	1.0 0.040	1.14 0.045	1.2 0.047	1.6 0.062	2.4 0.093	3.2 0.125
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Straight Lengths - 915 mm (36 in.) or 1000 mm (39 in.)