

ERNiCrMo-3

Solid Welding Wire or Rod Used for TIG, MIG and SAW welding of nickel-chromium-molybdenum alloys acc. EN 13479 Technical and mechanical properties acc. AWS 5.14

Main Applications:

ERNiCrMo-3 refers to a category of heat-resistant welding wire. It is used in construction, metallurgy, oil, medicine, heavy engineering. The weld metal has good impact strength and high resistant to embrittlement. Suitable for welding of dissimilar steels, operating at temperature of 450 - 550 °C. Is applied in an aggressive environmental exposures at high temperature and even at high humidity.

Standard specifications:

Alloy name	Product forms	AWS		UNS	DIN 1736
ERNiCrMo-3	MIG/TIG/SAW welding wire or rod	A5.14	ERNiCrMo-3	W86112	2.4621

Chemical Composition:

	Alloy name	Ni% (min)	Cr%	Mo%	Mn%	Si% (max)	Ti% (max)	S% (max)	P% (max)	C%
AWS	ERNiCrMo-3	58	20-23	8-10	0.50	0.5	0.4	0.015	0.015	0.1
VZPS	ERNiCrMo-3	58.5-61.5	23.5-26.5	9.0-11.0	1.0-2.0	0.4	0.2	0.015	0.015	0.1

Mechanical properties:

Tensile strength: 758 MPa (110 psi)
 Elongation: min 30%

Dimensions:

Product	Diameter, mm	Length, mm	Packing
Welding wire (MIG)	0.8, 1.0, 1.2, 1.6, 2.0, 2.4, 2.5, 3.2	-	S300/K300
Welding rods (TIG)	2.0, 2.5, 3.2, 4.0, 5.0	915 - 1000	Box
Electrode core wire	2.0, 2.5, 3.20, 3.25, 4.0, 5.0	250, 300, 350, 400, 450, 500	Box

** Other rods length available

Condition of Supply:

Binary Nickel-Iron (Ni-Fe) and Ni based complex welding alloys are supplied in welding rod and wires in standard length or length up to the consumers' request. For normal service conditions, the chemical compositions are available in various Ni contents according to the most of American and European standards.

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