

## Exaton NiCrMo-10



NiCrMo-10 is a NiCrMo alloy of type alloy UNS N06022. It is a versatile alloy with excellent wet corrosion resistance in oxidizing and reducing media. It has better overall corrosion resistance than other NiCrMo alloys such as alloy UNS N10276 (2.4819) and alloy UNS N06626 (2.4856). However, in severely reducing media alloy UNS N10276 is preferred where NiCrMo-10 is a better matching consumable.

NiCrMo-10 is used for joining alloy UNS N06022 (2.4602) and is widely used as overmatching filler material for alloy UNS N10276 (2.4819) and other nickel-chrome-molybdenum alloys for better weld metal properties.

Typical applications for NiCrMo-10 are found in components for organic synthesis, flue gas scrubber systems, electrolytic galvanizing, plate heat exchangers, phosphoric acid production, wet chlorine gas, hypochlorite and chlorine dioxide atmosphere. NiCrMo-10 is also used in combustion-resistant components for high pressure oxygen service and ferric and cupric chloride environments.

<b>Classifications</b>	SFA/AWS A5.11 : ENiCrMo-10 EN ISO 14172 : E Ni 6022
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<b>Welding Current</b>	DC+
<b>Alloy Type</b>	Ni-based CrMo
<b>Coating Type</b>	Basic

### Typical Tensile Properties

Condition	Yield Strength	Tensile Strength	Elongation
<b>ISO</b>			
As Welded	510 MPa (74 ksi)	760 MPa (110 ksi)	36 %

### Typical Charpy V-Notch Properties

Condition	Testing Temperature	Impact Value
<b>ISO</b>		
As Welded	-196 °C (-321 °F)	45 J (33 ft-lb)

### Typical Weld Metal Analysis %

C	Mn	Si	S	P	Ni	Cr	Mo	V	Cu
0.02	0.5	0.15	0.007	0.010	57	21	14.0	0.07	0.04

### Typical Weld Metal Analysis %

Co	Fe	W
0.25	4	3

### Deposition Data

Diameter	Number of electrodes/ kg weld metal	Burn-off Time/ Electrode	Deposition Efficiency %	Deposition Rate @ 90% I max
2.5 x 300.0 mm (0.098 x 11.8 in.)	103	41 sec	66 %	0.9 kg/h (2.0 lb/h)
3.2 x 300.0 mm (1/8 x 11.8 in.)	56	44 sec	69 %	1.2 kg/h (2.6 lb/h)
4.0 x 350.0 mm (5/32 x 13.8 in.)	30	71 sec	67 %	2.2 kg/h (4.9 lb/h)