

Exaton Ni60

Exaton Ni60 is a nickel-chromium-molybdenum covered electrode for welding of Ni/Cr/Mo nickel alloys, highalloy stainless steels and 5-9%Ni steels in cryogenic applications. It can be used in many variants of dissimilar joining of nickel alloys, stainless steels and low alloyed steels. Exaton Ni60 can also be used for overlay welding on low alloyed steels. The electrode combines good welding properties in all positions with very low impurity levels, high impact strength and excellent corrosion resistance to pitting in chloride containing media and stress corrosion cracking. Typical applications for Exaton Ni60 include components in the chemical and petrochemical industries often in connection with sea-water cooling where pitting corrosion and stress corrosion cracking are a risk, pressure vessels, heat exchangers etc. It is also used in sour gas service where it is approved by ISO 15156/NACE MR0175. Common base materials welded are ASTM UNS: S31254, N06625, N08825 and N08020.

Spezifikationen

Klassifikationen	SFA/AWS A5.11 : ENiCrMo-3 EN ISO 14172 : E Ni 6625 (NiCr22Mo9Nb)
Zulassungen	VdTÜV : 04796

Zulassungen basieren auf dem Werksstandort. Bitte kontaktieren Sie ESAB für weitere Informationen.

Schweißstrom	DC+
Legierungstyp	Ni-based CrMoNb
Umhüllungstyp	Basic

Typische Festigkeitseigenschaften

Zustand	Streckgrenze	Zugfestigkeit	Dehnung
ISO			
Unbehandelt	520 MPa	820 MPa	38 %

Typische Kerbschlagzähigkeit

Zustand	Prüftemperatur	Kerbschlagarbeit
ISO		
Unbehandelt	20 °C	70 J
Unbehandelt	-196 °C	65 J

Typische Schweißgutrichtanalyse %

C	Mn	Si	S	P	Ni	Cr	Mo	Cu	Nb
0.03	0.23	0.4	<=0.01	<=0.015	63	22	9	0.01	3.4

Typische Schweißgutrichtanalyse %

Others tot	Fe	Nb+Ta
<=0.50	<=2	3.4

Leistungsdaten

Durchmesser	Strom	Volt	Ausbringen (%)	Abschmelzzeit / Elektrode	Abschmelzleistung bei 90 % I max
2.5 x 300.0 mm	55-75 A	23 V	55 %	40 sec	0.9 kg/h
3.2 x 350.0 mm	65-100 A	25 V	56 %	52 sec	1.4 kg/h
4.0 x 350.0 mm	80-140 A	27 V	58 %	57 sec	1.9 kg/h
5.0 x 350.0 mm	120-170 A	24 V	58 %	72 sec	2.1 kg/h