

Exaton Ni59

Exaton Ni59 is nickel chromium molybdenum alloy of the type UNS N065059. It is a versatile alloy with excellent wet corrosion resistance for the most demanding applications. It combines excellent corrosion resistance in oxidizing and reducing media, has excellent resistance in chloride containing media and to localized corrosion environments. The grade has excellent thermal stability compared to other nickel alloys, and has therefore outstanding resistance to intermetallic precipitation during welding. The microstructure is fully austenitic. Exaton Ni59 is used for joining matching alloys or dissimilar joining to other nickel alloys such as UNS N10276 (2.4819), type UNS N06022 (2.4602), UNS N06625 (2.4856) and N08825 (2.4858). It provides strong, tough, Nb free weld metal for dissimilar welds in super austenitic and super duplex stainless steel joints or combinations of these with nickel alloys. Typical applications are: contaminated mineral acid environments such as sulfuric acid, hydrochloric acid, phosphoric acid, nitric acid etc, components in sulphuric acid coolers, digesters and bleachers, chemical, petrochemical, marine, pharmaceutical, energy production and pollution control.

Specifikace

Klasifikace	SFA/AWS A5.11 : ENiCrMo-13 EN ISO 14172 : E Ni 6059 (NiCr23Mo16)
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Svaovací proud	DC+
Typ legování	Ni-based CrMo
Typ obalu	Basic

Typické vlastnosti v tahu

Podmínky	Mez skluzu	Mez pevnosti v tahu	Prodloužení
ISO			
Po svaení	500 MPa	790 MPa	35 %

Vrubová houževnatost

Podmínky	Testovací teplota	Vrubová houževnatost
ISO		
Po svaení	-196 °C	40 J
Po svaení	20 °C	60 J

Typického chemického složení svarového kovu v %

C	Mn	Si	S	P	Ni	Cr	Mo	Fe
0.01	0.2	0.15	0.006	0.006	60	23	16	1

Údaje ukládání

Prmr	A	V	Účinnost (%)	as dohoení/elektroda	Výkon odtavení pi 90 % max. hodnoty proudu
2.5 x 300.0 mm	50-70 A	25 V	60 %	50 sec	0.8 kg/h
3.2 x 350.0 mm	60-90 A	25 V	62 %	63 sec	1.2 kg/h
4.0 x 350.0 mm	80-120 A	27 V	62 %	81 sec	1.4 kg/h