

Exaton Ni41Cu

Exaton Ni41Cu welding wire is suitable for overlay welding when a deposit with chemistry corresponding to UNS N08825 is required. The weld deposit is a nickel-iron-chromium-molybdenum-copper alloy suitable for use in corrosive environments. Exaton Ni41Cu has very good resistance to stress corrosion cracking (SCC) in chloride containing environments and is particularly suited for use in reducing environments such as those containing sulphuric and phosphoric acids. Exaton Ni41Cu is used for corrosion resistant alloy surfacing of components in the chemical, pollution control, oil & gas and petrochemical industries and often in connection with sour gas service. Typical components are tanks, heat exchangers, evaporators, transport pipes and scrubbers etc.

Spezifikationen

Klassifikationen

SFA/AWS A5.14 : ERNiFeCr-1
EN ISO 18274 : S Ni 8065 (NiFe30Cr21Mo3)

Legierungstyp

Alloyed nickel (Ni + 22% Fe, 27% Cr, 3% Mo)

Typische Festigkeitseigenschaften

Zustand	Streckgrenze	Zugfestigkeit	Dehnung
ISO			
Unbehandelt	338 MPa	546 MPa	47 %

Typische Kerbschlagzähigkeit

Zustand	Prüftemperatur	Kerbschlagarbeit
ISO		
Unbehandelt	-196 °C	190 J

Drahtzusammensetzung

C	Mn	Si	S	P	Ni	Cr	Mo	Cu	Ti
0.02	0.8	0.15	0.003	0.01	43.0	22.0	3.0	1.9	1.0

Drahtzusammensetzung

Fe

24.4

Typische Schweißgutrichtanalyse %

C	Mn	Si	S	P	Ni	Cr	Mo	Al	Cu
0.02	0.6	0.3	0.001	0.016	42	22.4	2.9	0.1	2.2

Typische Schweißgutrichtanalyse %

Ti	PRE	Fe
1	28	24