

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.

Especificaciones

Clasificaciones

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

Tipo de aleación

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

Propiedades tensoras típicas

Condición	Límite de elasticidad	Resistencia a la tracción	Alargamiento
ISO			
Como soldado	338 MPa	546 MPa	47 %

Propiedades de Ensayo de impacto Charpy

Condición	Temperatura de ensayo	Valor de impacto
ISO		
Como soldado	-196 °C	190 J

% Composición hilo (valores típicos)

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

% Composición hilo (valores típicos)

Fe
24.4

% Análisis metal depositado (valores típicos)

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

% Análisis metal depositado (valores típicos)

Ti	PRE	Fe
1	28	24