





CEWELD SA Alloy 825

TYPE Nickel - Chromium - Molybdenium - Copper alloy for SAW welding.

APPLICATIONS The excellent corrosion-resistant properties of Alloy 825 make the alloy a suitable choice for a

variety of difficult applications. Uses include fabricated equipment found in chemical and Petrochemical processing, pulp and paper manufacturing, flue gas desulphurization systems and metal

pickling operations.

PROPERTIES Fully austenitic weld metal with high resistance against stress corrosion cracking and pitting in

> media containing chloride ions. Good corrosion resistance against reducing acids due to the combination of Ni, Mo and Cu. Sufficient resistance against oxidizing acids. The weld metal is corrosion resistant in sea water. CEWELD® SA Alloy 825 is best to be used with CEWELD® FL 838 or

CEWELD® FL 839 flux.

CLASSIFICATION **AWS** A 5.14: ERNiFeCr-1

> FN ISO 18274: S Ni 8065(NiFe30Cr21Mo3)

F-nr 45 FΜ 6 2.4858 W.Nr.

SUITABLE FOR G-X7NiCrMoCuNb 25 20, X1NiCrMoCuN25 20 6, X1NiCrMoCuN25 20 5, NiCr21Mo, X1NiCrMoCu 31 27

> 4, N08926, N08904, ALLOY 825, N08028, UNS N08825 W.Nr: 1.4500, 1.4529, 1.4539 (904L), 2.4858, 1.4563, 1.4465, 1.4577 (310Mo), 1.4133, 1.4500, 1.4503, 1.4505, 1.4506, 1.4531, 1.4536, 1.4585,

1.4586

APPROVALS No Approvals Found

WELDING POSITIONS



Si

Mn

0.8

0.02

0.02

TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)

ALL WELD MECHANICAL

PROPERTIES

1	1		1	1	1	1	1	1	1	
Heat	R _{P0.2}	Rm	A5		In	npact Ener	gy (J) ISO	-V		

Cr

22.5

Heat	$R_{P0,2}$	Rm	A5	Impact Energy (J) ISO-V			
Treatment	MPa	MPa	(%)	RT	-196°C		
As Welded /	425	630	30	100	70		

REDRYING TEMPERATURE Not required

GAS ACCORDING EN 14175