# **CEWELD**<sup>®</sup>

# E Nicro 825

CATEGORY	SMAW Stick Electrodes					
ТҮРЕ	Rutile-basic nickel based electrode for DC+ and AC current					
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 petro- chemical processing, pulp and paper manufacturing, flue gas desulphurization systems and metal pickling operations.					
PROPERTIES Excelent weldability with fully austenitic weld metal with high resistance against stress corros pitting in media containing chloride ions. Good corrosion resistance against reducing acids du combination of Ni, Mo and Cu. Sufficient resistance against oxidizing acids. The weld metal is resistant in sea water.						
CLASSIFICATION	AWS EN ISO DIN: W.Nr. DIN	A 5.11: no standard 14172: E Ni 8165 (NiFe30Cr25Mo) 2.4652 1736: EL NiCr 26 Mo				
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	CE approved					
WELDING POSITIONS:						
WELD METAL ANALYSIS %	)					

Ni	С	Mn	Fe	Si	Cu	Cr	Мо
rem	< 0.03	2-2.5	20-22	< 0.4	1.5-2	23-25	4-5

### MECHANICAL PROPERTIES

Heat	R <sub>P0,2</sub>	Rm	A5	Impact Energy (J) ISO-V			Hardness
Treatment	(N/mm <sup>2</sup> )	(N/mm <sup>2</sup> )	(%)	-20°C	-40°C	-196°C	HRc / HV
AW	425	630	30			70	

#### AW: as welded

## WELDING PARAMETERS / PACKING

	Welding Parameters	;		Packing	
D (mm)	Length (mm)	Current (A)	kg / can	kg / 6 pack	kg / 1000
2.5	300	60-90			
3.2	350	80-130			
4.0	350	100-150			

#### REDRYING TEMPERATURE 300°C/2hr