CEWELD®

FL 180

CATEGORY SAW Arc Submerged **TYPE** Agglomerated rutile flux additive in Mn and Si, suitable for carbon steel welding with two or three passes.

APPLICATIONS Light boiler works, beams, pipes, ship building, structural steel works, small tanks and gas cylinders etc..

PROPERTIES Excellent slag removal in fillet and root passes. It can be used in single or multi-wires at high speed with excellent bead aspect. Ceweld S4 wire in combination with this flux is suitable only for fillet welding in single

pass. Excellent slag removal in fillet and groove welds.

Basicity: About 0,4 (according to boniszewski) Current: DC or AC, in single or multi-wires up to 1200 Ampere per wire

Grain size: According to EN 760: 2-20 specification

CLASSIFICATION AWS 5.17: F6A2-EL12

5.17: F7A3-EM12K

EN ISO 14174: SA AR 1 88 AC DIN BAR 188AC10KM

Unalloyed steels:St 33 - St 52 Ship building: A, E, AH, EH, Boiler steels: HI-HIII, 17Mn4, 19Mn5, Pipe steels: St **SUITABLE FOR**

37.0/4 - St 52.0/4, Fine-grain steels:StE 255 - StE 420

APPROVALS CE approved

WELDING POSITIONS:



NOMINAL FLUX COMPOSITION

MnO	TiC)2	CaO	FeF ₂	Fe ₂ O ₃	SiO ₂	Al ₂ O ₃	MgO	P ₂ O ₅	CaF ₂
13	10)	0,5	-	-	19	42	4	-	7

MECHANICAL PROPERTIES

AW	R _{P0,2}	Rm	A5	lmpact Energy (J) ISO-V			Hardness
Wire type	(N/mm ²)	(N/mm ²)	(%)	0°C	-20°C	-60°C	HRc / HV
S1	>400	510-650	>22	>40	>27		
S2	>400	520-650	>22	>50	>27		
S2Si	>400	520-650	>22	>50	>27		
S4	>400	540-650	>22	>40	>27		

AW: as welded

REDRYING TEMPERATURE At 350°C for 2 hours to obtain diffusible hydrogen 5 ml/100 gr.