CEWELD®

410

CATEGORY GMAW-GTAW Solid wires TYPE Solid stainless steel welding wire **APPLICATIONS** Overlay of carbon and low-alloy steels for resistance to corrosion, erosion, or abrasion. 410 has higher hardness and is used in valve seats to obtain better galling resistance. Normally to obtain adequate ductility, preheat and post-weld heat-treatment are required. **PROPERTIES** 410 is a martensitic stainless steel that is heat-treatable. It has a nominal weld metal composition of 12% Chromium. These weld deposits are air-hardenable that can normally be heat-treated after welding. **CLASSIFICATION AWS** A 5.9: ER 410 EN ISO 14343-A: G Z 13 DIN: W.Nr. 1.4009 DIN 8556: SG-X 8 Cr 14 **SUITABLE FOR** For welding or repairing 12% Cr air-hardenable stainless steels like types 410, 416, 420, 431 and cast C-15, W.Nr: 1.4008, 1.4000, 1.4006, X8Cr14, X6Cr13, X10Cr13 and cast steels. **APPROVALS** CE approved

WELDING POSITIONS:

WELD DEPOSIT WER	JHT % (TYPICAL)					
С	Mn	Si	Cr	Ni	Мо	Cu

< 0,60

< 0,75

LPA PE PC TO THE PF NO

< 0,60 < 0,50 12-13,5

MECHANICAL PROPERTIES

< 0,12

Heat	R _{P0,2}	Rm	A5	Imp	act Energy (J) IS	0-V	Hardness
Treatment	(N/mm ²)	(N/mm ²)	(%)	-20°C	-40°C	-60°C	HRc / HB
AW							35 HRc
PWHT 680C/8hr	>450	>650	>15				180 HB 30

PWHT: Post weld heat treatment

WELDING PARAMETERS PACKING

Welding Parameters			Packing			
D (mm)	Voltage (V)	Current (A)	spool type	kg / 6pack	kg / pallet	
1,0			K-300 / Drum	15 / 250	1080 / 1000	
1,2			K-300 / Drum	15 / 250	1080 / 1000	
1,6			K-300 / Drum	15 / 250	1080 / 1000	

GAS ACC ISO 14175: M12, M13