CEWELD° ER 630 (17-4 PH)



CATEGORY	GMAW Solid wires	GMAW Solid wires							
ТҮРЕ	Precipitation hardening stainless st	Precipitation hardening stainless steel filler metal used for welding materials of similar chemical composition such as 17-4 and 17-7.							
APPLICATIONS	To be used in the as welded conditiving influenced by the heat treatment.	To be used in the as welded condition or in the heat treated condition to obtain higher strength. Mechanical properties of this alloy are greatly influenced by the heat treatment.							
PROPERTIES	Mechanical properties listed below reflect utilization of a post-weld heat treatment between 1024°C (1875°F) and 1052°C (1925°F) for one hour, followed by precipitation hardening between 623°C (1135°F)								
CLASSIFICATION	AWS EN ISO F-nr FM W.Nr.	A 5.9: ER630 14343-B: G 630 6 5 1.4542							
SUITABLE FOR	Suitable for precipitation hardening stainless steel used for welding materials of similar chemical composition such as 17-4 (PH) and 17-7 as aplied for valves, fasteners, gears, propeller stafts, and roller chain pins. W.Nr: 1.4542								
APPROVALS	CE								
WELDING POSITIONS:									

TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)

C S)i	Mn	Cr	Ni	Мо	Nb	Cu
0.03 0.4	45	0.55	16.7	4.8	0.2	0.2	3.5

ALL WELD MECHANICAL PROPERTIES

Heat	R _{P0,2}	Rm	A5	
Treatment	MPa	MPa	(%)	
As Welded /	750	980	10	

WELDING PARAMETERS / PACKING

	WELDING PARAMETERS	WELDING PARAMETERS	WELDING PARAMETERS	PACKING	PACKING
D (MM)		VOLTAGE (V)	CURRENT (A) DC+	SPOOL TYPE	LBS / SPOOL
0.9		26-29	160-210	S-300	33
1.14		28-32	180-250	S-300	33
1.6		29-33	200-280	S-300	33
REDRYING 1	TEMPERATURE Not re	equired			
GAS ACCOR	DING EN 14175 M11,	M13, M12			