Unalloyed Welding Wire



General Description

Gas metal arc (MIG/MAG) welding wire used for welding general structural steels, pipe steels and cast steels. Depending on the thickness of the base metal, CO2 (carbon dioxide) or mixed gases can be used as shielding gas. It is generally used in steel structure and shipbuilding, machinery, tank, boiler manufacturing, metal goods manufacturing and automotive industry. It is recommended to preheat according to the thickness of the material to be welded and its carbon equivalent. Thin and homogeneous copper coating increases the electrical conductivity and the resistance of the wire against corrosion.

Standards		Typical Ch	emical Pro	perties of	Welding Wire	Typical Mechanical Properties of Weld Metal			
AWS A5.18	ER706S-6		С	Şi	Mn	Yield Strength (Mpa)	: 440 N/mm²		
ENISO 14341-A	G 42 4 M21 3511	TS/EN/ISO	0,06-0,14	0,70-1,00	1,30-1,60	Tensile Strength (Mpo)	: 540 N/mm²		
ENISO 14341-A	G 42 4 C1 3S1	DUW1/2	0.06	0.85	1.45	Elongation A5 (%)	:30		
TS EN ISO 14341-A	G 42 4 M21 3S1					Notch Impact Resistance ISO-V (J)	: 60 J (-30°C)		
TS EN ISO 14341-A	G 42 4 C1 3S1								

	/			(r)	-	=+
1G/PA	2F/PB	2G/PC	4G/PE	3G/PE	3G/PG	

Weldable Steels	DN	EN			
General Structural Steels	St 33, St 34, St 37, St 44, St 44-2, St 44-3, St 52, St 52-3 St 37-4, St 44-4, St 52-4 St 50-2, St 60-2 C 10- C35; Ck 10 - Ck 35	\$185, \$235, \$275, \$355 P235TR2-P355T2 E295-E335 C10-C35			
Fine Grain Steels	StE 255 - StE 420 WStE 255 - WStE 355	S255N - S420N P255NH - P355NH			
Pipe Steels	SIE 210-7 - SIE 360-7 SIE 290-7 TM - SIE 360-7 TM X42,X46,X52X60(API 5LX)	L210-L360NB L290MB -L3620MB 			
Boiler and Pressure Vessel Steels	17 Mn 4, 19 Mn 6 HI, HII	P295GH, P355GH P235GH, P265GH			
High Temperature Steels	St 35-8, St 45-8	P235G1TH - P255G1TH			
Ship Sheets	A, B, C, D, E AH32 - EH36	=			
Cast Steels	GS-38, GS-45, GS-52	GE200, GE240, GE260			

Shielding Gases

M21 Ar + %5-25 CO2 C1 %100 CO2

Welding Parameters			Packaging and Diameter Information									
Wire Thickness (mm) AMPERE VOLTAGE			Diameter		Barrel Weight	Barrel Type	Spool Weight		Spool Type			
0.8	50-200 A 80-230 A	14-26 V 15-27 V	0.8	1.0	1.2	1.6	250 kg	Fiber Canister	15 kg	5 kg	Plastic	W
1.20	120-340 A	17-30 V	0	0	0	0	0	0	0	0	0	(
1.60	180-400 A	19-36 V										

