

MIG/MAG Welding Wire for High Strength and Low Alloyed Steels

Classification

EN ISO 21952-A : G CrMo1Si*
AWS A5.28 : ER80S-B2

(*) Nearest classification

General Description

It is a low alloyed GMA welding wire, used for the welding high temperature strength Cr-Mo (1.25 % Cr, 0.5 % Mo) steels (boiler and pressure vessels) in operating temperatures up to 550°C. Also It is used in the welding cementation and nitride steels.

Industry: Chemical and petro-chemical industry.

Chemical Composition (w%), Typical, Wire

C	Si	Mn	Ni	Cr	Mo	Cu
0.08	0.55	0.60	< 0.20	1.30	0.55	< 0.30

Mechanical Properties, Typical, All Weld Metal

Yield Strength : 510 N/mm²
Tensile Strength : 620 N/mm²
Elongation (L=5d) : 24 %
Impact (ISO-V) : 120 J (+20°C)
100 J (-10°C)

Shielding Gases (ISO 14175 / EN 439)

MIG : M21 - Ar + 5-25% CO₂
C1 - CO₂ (100%)

Current Type and Polarity : DC (+)

Materials to be Welded

	DIN	EN	Wr. Nr.
Creep Resistant Steels	15 CrMo 5	–	1.7205
	25 CrMo 4	–	1.7218
	42 CrMo 4	–	1.7225
	13 CrMo 44	13 CrMo 4-5	1.7335
	22 CrMo 44	–	1.7350
	13 CrMoV 42	–	1.7709
	16 CrMoV 4	–	1.7728
	Cast Steels	GS-25 CrMo 4	G25CrMo4
GS-22 CrMo 5 4		G22CrMo5-4	1.7354
GS-17 CrMo 5 5		G17CrMo5-5	1.7357
Cementation Steels	–	16MnCr5	1.7131

Packing and Diameter Informations

Diameter	0.8	1.0	1.2	1.6	2.0	2.4	3.2	Spool Weight
MIG/MAG Wire	-	X	X	-	-	-	-	15 kg