

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/mm ²
Tensile Strength	: 620 N/mm ²
Elongation (L=5d)	: 24 %
Impact (ISO-V)	: 120 J (+20°C) 100 J (-10°C)

SHIELDING GASES (ISO 14175 / EN 439)

MAG : 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	1.7218
	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

Liability : All information in this data sheet is based on the best available knowledge, is subject to change without notice and can only be considered as suitable for general guidance.

Fumes : Consult information on Welding Safety Sheet, available upon request.

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