

EZ - SG 2

CLASSIFICATION

EN ISO 14341-A	AWS / ASME SFA-5.18	DIN 8559	W. Nr.
G 42 4 C/M 3Si1	ER70S-6	SG 2	1.5125

DESCRIPTION AND APPLICATION

A copper or bronze coated solid wire for welding in C1 (CO₂) or M21 (Ar/CO₂) shielding atmosphere. Suitable for welding of mild and low-alloy steels with tensile strength up to 590 N/mm².

Steel grade	HRN	DIN (W. Nr.)		EN / ISO
Constructional steels	Č 0261 to Č 0545	St 33 (1.0035) to St 52-2N (1.0050)		S 185 to E 295 Fe 310-0 to Fe 490-2
Boiler steels	Č 3133 Č 3105	HI (1.0345) 17Mn4 (1.0481)	HII (1.0425) 19Mn6 (1.0473)	P235GH P265GH P295GH P355GH
Tube and pipe steels	Č 1212 to Č 3100	St 35.4 (1.0309) to St 52.4 (1.0581) StE 210.7 (1.0307) to StE 360.7 (1.0582)		DX55D to P355T2 L210 to L360NB
Shipbuilding steels	A, B, D, E AH 32 to EH 36	A, B, D, E AH 32 to EH 36		
Fine-grained steels	ČRO 250 to ČRO 350 ČRV 250 to ČRV 350	StE 285 (1.0486) WStE 285 (1.0487)	StE 355 (1.0562) WStE 355 (1.0565)	P275N P355N P275NH P355NH
Cast steels	ČL 0300 to ČL 0500	GS-38 (1.0416) to GS-52 (1.0551)		C18D to S355JRC

MECHANICAL PROPERTIES OF THE ALL-WELD METAL

R _{eL} N/mm ²	R _m N/mm ²	A ₅ %	KV (-40°C) J
> 430	500 - 640	> 22	≥ 47

APPROXIMATE CHEMICAL COMPOSITION OF THE ALL-WELD METAL

	C	Mn	Si	Cu
%	0,06 - 0,13	1,4 - 1,6	0,7 - 1,0	≤ 0,3

SHIELDING GAS

C1 or M21

PACKAGING

Wire diameter mm	Winding
0,6; 0,8; 1,0; 1,2; 1,6	random-wound (S-L); precision-wound (S-S)

1 kg - plastic spool (wire diameters 0,6 and 0,8 mm)

5 kg - plastic spool (wire diameters 0,6 and 0,8 mm)

15 kg - plastic (S-L or S-S wind) or metal spool (S-S wind) (wire diameters 0,8; 1,0; 1,2 and 1,6 mm)

250 kg - drum (wire diameters 0,8; 1,0 and 1,2 mm)

APPROVALS

ABS (3YSA); BV (SA 3Y M); CRS (3YS); DB; DNV (IIIYMS); GL (3YS); LR (3S,3YS); RINA (3YS); TÜV

