

Solid Wire Electrode for Submerged Arc Welding

Classification:		Characteristics:				
ISO 14171-A -	S3Mo	Mo-alloyed wire electrode with higher Mn-content for				
SFA 5.23 / AWS A5.23 -	EA4	submerged arc welding of fine grain steels, pipe steels				
		and heat-resistant boiler and vessel steels.				

Typical analysis and chemical composition acc. to EN ISO 14171-A and AWS A5.23:

Wire electrode	С	Si	Mn	Мо	Ni	Cr	Р	S	Cu total
Typical analysis BA-S3Mo	0.10	0.13	1.55	0.49	0.02	0.05	0.014	0.011	0.08
S3Mo acc. to ISO 14171-A	0.07-0.15	0.05-0.25	1.30-1.75	0.45-0.65	0.15	0.15	0.025	0.025	0.30
EA4 acc. to AWS A5.23	0.05-0.15	0.20	1.20-1.70	0.45-0.65			0.025	0.025	0.35

Base Materials:

- Fine grain steels acc. to EN 10025, EN 10028 and ASTM: P460N/S460NL to P500Q/S500QL Suitable fluxes: BF 5.1, BF 6.5 and BF 10
- Pipe steels acc. to ISO 3183, EN 10208 and API-5: L360N/X52 to L555Q/X80 Suitable fluxes: BF 5.1, BF 6.30 and BF 6.5
- Heat-resistant steels acc. to EN 10028 and ASTM: 16 Mo 3/A204 grade A and A209 grade T1, P355GH/A516 grade 70 and S355J2G3/A572 grade 50 Suitable fluxes: BF 5.1, BF 6.5 and BF 10

Flux type suitability is strongly dependent on its application. In combination with the wire electrode the most suitable flux should match the requirements of the plate material as closely as possible under the existing welding conditions. Further information can be obtained from the technical flux data sheets.

Diameter:

2.0 - 5.0 mm; Sizes and tolerances acc. to ISO 544 and AWS A5.23.

Wire electrode surface:

Copper-coated, smooth finish free from surface defects and foreign matter.

Package forms:

Coils, spools, drums and spiders as standard package forms for SAW-wire electrodes, different package forms on request.