

# **Solid Wire Electrode for Submerged Arc Welding**

Classification:

ISO 14171-A - **S4** SFA 5.17 / AWS A5.17 - **EH14** 

#### **Characteristics:**

Wire electrode for submerged arc welding intended for welding mild steel used in pressure vessels, shipbuilding and steel structures.

## Typical analysis and chemical composition acc. to EN ISO 14171-A and AWS A5.17:

Wire electrode	С	Si	Mn	Мо	Ni	Cr	Р	S	Cu total
Typical analysis BA-S3	0.12	0.08	1.90	0.01	0.05	0.04	0.015	0.015	0.14
S4 acc. to ISO 14171-A	0.07-0.15	0.15	1.75-2.25	0.15	0.15	0.15	0.025	0.025	0.30
EH14 acc. to AWS A5.17	0.10-0.20	0.10	1.70-2.20				0.030	0.030	0.35

#### **Base Materials:**

 Pipe steels acc. to ISO 3183, EN 10208 and API-5: L210 – L450/X42 – X65 Suitable fluxes: BF 5.1, BF 6.30 and BF 6.5

Boiler steels acc. to EN 10028 and ASTM: P235GH, P355GH, P275N, P355N, P355M, P460N, P460M/A516 grade 55, A516 grade 70, A572 grade 42, A572 grade 50
Suitable fluxes: BF 1, BF 3, BF 4, BF 5.1and BF 6.5, BF 10

Shipbuilding steels: Grades AH40, EH40
Suitable fluxes: BF 1, BF 3, BF 4, BF 5.1, 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 A5.17.

## 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.

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