

TECHNICAL SPECIFICATION: WIRE ROD AS1



Description of the product

Wire rod for submerged arc welding wire

CHEMICAL COMPOSITION (REF. AWS A5.17: EL12 - EN ISO 14171: S1)

	C	Mn	Si	P	S	Cu	Cr	Ni	Mo	Sn
Min	0.04	0.40								
Max	0.08	0.60	0.10	0.020	0.020	0.15	0.15	0.15	0.10	0.01

MECHANICAL PROPERTIES

Rm (N/mm ²)	A5 (%)	Z (%)
340 ÷ 440	≥ 34	≥ 70

Range of dimensions

- Diameter: 5.5 – 16 mm

TOLERANCE (EN 10017 - ISO 16124 grade T1)

Diameter (mm)	Tolerance on	
	Diameter	Ovality
5,5 - 6 - 6,5 - 7 - 7,6 - 8 - 8,7 - 9	± 0.30	0.48
10 - 11 - 12 - 13 - 14 - 15	± 0.40	0.64
16	± 0.50	0.80

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Packaging

Coil strapped in 4 positions

Coil weight:

- ~ 1420 kg

Single-strap fastening with 7 mm diameter wire

Coil dimensions:

- \varnothing int. 850 ÷ 900 mm
- \varnothing ext. 1150 ÷ 1250 mm
- height 900 - 1100 mm

Labelling

Each coil is identified with a metal or paper plastic label containing the following information:

- Company logo
- Heat number
- Diameter
- Weight
- Steel grade
- Production date
- Certification logos
- QR Code

Standards references

UNI EN ISO 16120-1:2017: "Non-alloy steel wire rod for conversion to wire - Part 1: General requirements wire"

UNI EN ISO 16120-2:2017: "Non-alloy steel wire rod for conversion to wire - Part 2: Specific requirements for general purpose wire rod"

Certifications

Each delivery is accompanied by the certificate 3.1 (standard UNI EN 10204)