

1. DESCRIPTION

Weldable steel wire rod in coils for drawing and stranding for prestressed steel components production according to standard ISO 16120-4 C82D2.

2. HEAT CHEMICAL COMPOSITION

	C %	Mn %	Si %	P %	S %	Cr %
min	0.80	0.60	0.15	-	-	-
max	0.84	0.80	0.30	0.020	0.025	0.25

Chemical elements not listed above and permissible deviations of product analysis according to ISO16120-2.

3. MECHANICAL AND DIMENSIONAL PROPERTIES

D mm	Ovality mm	Z %	A %	Rm MPa	
				min	max
10 ± 0.20	≤0.32	≥ 25*	≥ 9*	1140	1230
11 ÷ 13 ± 0.25	≤0.40				

* unless exemptions granted by the customer.

Permissible variation for ultimate tensile strength according to ISO 16120-4 par. 5.8.

Diameter tolerance and out-of-round according to ISO 16124 grade T3.

Any geometric defect regarding the tail of the coils could occur within a distance from the end of wire rod not greater than those included in ISO 16124 Table 11.

4. GENERAL QUALITY PROPERTIES

Internal soundness and surface quality, depth of surface discontinuities, depth of decarburization, non-metallic inclusions, core segregation and microstructure according to ISO 16120-4.

5. STANDARD PACKING

In coils up to approx. 2500 kg, inside diameter about 800 mm, outside diameter about 1200 mm, maximum length 1900 mm, tied with wire rods.

6. STANDARD IDENTIFICATION

Each coil with label reporting: Heat number, nominal diameter, steel quality (grade), weight and date of rolling.

Additional colored label to distinguish different heats.

7. MINIMUM PRODUCTION LOT

Minimum production lot for each diameter corresponding to 150 t.

8. STANDARD CERTIFICATION

On demand Inspection Certificate according to EN 10204 3.1.



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