

## Wire rod







With over 55 years of industry experience and expertise in steel, Sidenor, Stomana and their subsidiaries constitute the steel production and trading segment of Viohalco, which offers high quality and innovative solutions to its customers.

Sidenor is a leading producer of steel products in South East Europe. Its extensive product portfolio which includes long , flat and downstream steel products, is manufactured across nine facilities in Greece, Bulgaria, Romania, North Macedonia and projects locations span Germany, the Balkans, Algeria, Israel and the USA.

Sidenor Steel Industry plant is the first plant ever operated for the Group, with the inauguration taking place back in 1962. Since then, the company has invested significantly in reinforcing its production base in order to establish and maintain a strong competitive advantage.

The plant is located in the northern part of Greece at the outskirts of Thessaloniki.

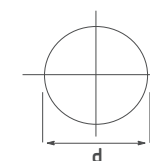
Annual production capacity:  Meltshop 800,000 tons  
 Rolling Mill 800,000 tons

Sidenor Steel Industry plant primarily produces billets, wire rod, and SD concrete reinforcing steel (in bars and coils). The facilities have been qualified under ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007, ISO 50001:2018 Energy management, SustSteel - EUROFER.



#### Chemical composition

Steel grade	C (%) max	Mn (%) max	S (%) max	P (%) max	Si (%) max	Typical uses
SAE 1006	0.08	0.30 - 0.40	0.025	0.020	0.08	Black and galvanized wires, small nails
SAE 1008	0.09	0.30 - 0.50	0.030	0.020	0.10	Black and galvanized wires, nails, galvanized fencing mesh
SAE 1010	0.10	0.40 - 0.60	0.040	0.025	0.15	Concrete reinforcing wire mesh, nails, galvanized fencing mesh
Electrodes	0.09	0.40 - 0.60	0.025	0.020	0.05	Coated welding electrodes (according to DIN 17145 / USD7)
S235JR	0.12	0.40 - 0.65	0.040	0.025	0.20	Concrete reinforcing wire mesh



#### Diameters, weights and tolerance

Diameter d (mm)	Permissible deviation	Nominal cross-section (cm <sup>2</sup> )	Nominal weight (kg/m)	Permissible out-of-roundness (mm)
5.5	0.3	0.238	0.187	0.48
6.0		0.283	0.222	
6.5		0.332	0.260	
7.0	0.4	0.385	0.302	0.64
8.0		0.503	0.395	
9.0		0.636	0.499	
10.0		0.785	0.617	
11.0		0.950	0.746	
12.0		1.130	0.888	
14.0		1.540	1.210	
16.0	0.5	2.010	1.580	0.80



#### Type

Hot rolled wire rod

#### Steel grades

- 1) SAE 1006 acc. to ASTM A510M
- 2) SAE 1008 acc. to ASTM A510M
- 3) SAE 1010 acc. to ASTM A510M
- 4) ELECTRODES (USD 7) acc. to DIN 17145
- 5) S235JR acc. EN10025 (RSt 37-2) acc. to DIN 17100

#### Form Diameter

Coils diameters from Ø5.5 to Ø16mm

#### Coil weight

From 1500 to 1700kg

#### Diameters weight & tolerances

According to DIN 59110



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