ELSEWEDY STEEL

Leading with **strength**

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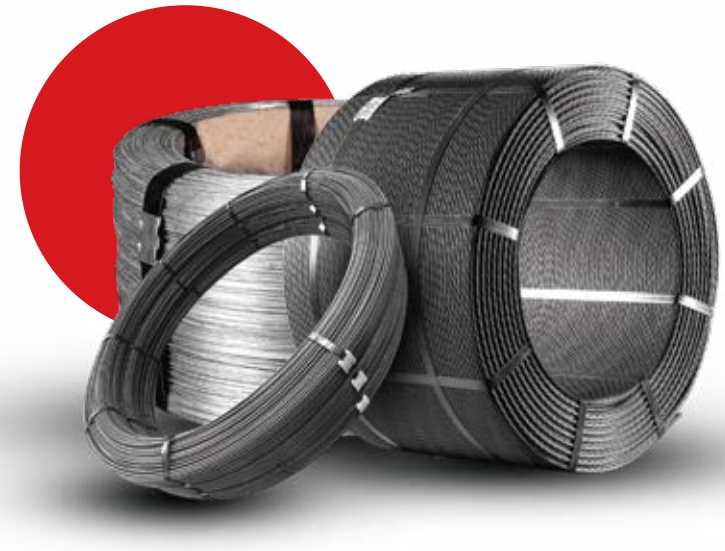

Since 2006, Elsewedy Steel has provided a wide range of reinforcement solutions to the Egyptian market. Our product line complies with international standards and offers galvanized steel wires, pre-stressed concrete strands and pre-stressed concrete wires, pre-stressed concrete bars and bead wire. Currently, we trade and export to more than 26 nations worldwide.

Elsewedy Steel follows explicit quality control procedures of inspection, starting from raw material to manufacturing and packaging processes, through a series of high technology on-line instruments, followed by laboratory tests, such as geometrical, zinc and electrical tests, and abiding to the international standards. Our 90,000 m^2 steel products production facility and 30,000 m^2 bead wire production area, combined with state-of-the-art automated control systems, enable us to deliver the most efficient and advanced solutions for our customers.

A - Galvanized Steel Wires

A-1 Low Carbon Galvanized Steel Wires

- **Application**
  Armoring cables, barbed wires, mesh wires and all commercial applications.
- **Wires Diameter Range**
  0.80 to 5.00 mm.

A-2 High Carbon Galvanized Steel Wires/ Strands

- **Application**
  Steel core for A.C.S.R in "Overhead Power Transmission", stay wires, earth wires, damper wires "Vibration Damper" and all commercial applications.
- **Wires Diameter Range**
  1.30 to 5.00 mm.

A-3 Black High Carbon Steel Wires

- **Application**
  Mattresses springs and all commercial applications.
- **Wires Diameter Range**
  1.30 to 5.00 mm.

B- Pre-stressed Concrete Steel Strands (PC Strands)

- **Product Overview**

  A 7-wire steel strand manufactured from hot-rolled, high carbon steel wire rods, which after cleaning & descaling is drawn into wire, fabricated into multi-wire strand & thermally stress-relieved.

- **Product Applications**

  Commercial buildings - bridges - tunnels - tanks - silos and parking buildings.

C - Pre-stressed Concrete Wires (PC Wires)

- **Product Overview**

  A high-grade, low-relaxation steel wire that is primarily used to counter the low- tension qualities inherent in concrete.

- **Product Applications**

  Concrete pipes - Railway track sleepers - Concrete floor beams - Precast hollow core floor slabs

D - Tire Bead Wire

- **Product Overview**

  We proudly introduce the "Bead Wire" the major component of tire reinforcement, making Elsewedy Steel the first manufacturer in Africa & Middle East to produce this product.

  Bead Wire is steel wire made of high-carbon steel whose surface is plated with red copper or bronze.

  Its high strength, enhanced flexibility, supreme fatigue property, and excellent linearity, is the reason it can be adhered to the rubber easily, and is mainly used in the tire bead as the framework material for reinforcement. It is widely applied in car tires, light truck tires, cargo truck tires, heavy equipment tires, and plane tires.

E - PC Bars

Product Overview

We offer high carbon steel wire, cold-drawn, with a plain surface or indented, treated to eliminate stresses (Thermomechanical), straightened and cut to length into Bars, threaded and milled at the ends from diameter 7 mm up to 9.4 mm to meet your project's specific needs. Our PC bars are manufactured to meet the highest standards for strength, durability, and performance.

Strength: Made from high-quality steel, our PC Bars boast a tensile strength up to 1770 Mega Pascals (MPa), making them ideal for applications requiring superior load-bearing capacity.

Quality: We adhere to rigorous international standards including pr EN 10138-2, ASTM A416, and BS 5896, ensuring consistent quality and reliability in every PC Bar we produce.

Key Features and Benefits:

High Tensile Strength: Withstands significant pulling forces without breaking.
Guaranteed Minimum Yield Strength: Ensures the bar can deform under pressure without permanent damage.
Excellent Ductility: Bends easily without cracking, allowing for flexibility in various applications.
Fatigue Resistance: Withstands repeated stress without failure, to be suitable for long-term use.
Corrosion Resistant: C1 grade provides enhanced protection against rust.
Surface Type: Smooth or indented.
Shape: Threaded and milled at the ends.

Applications:

- Railway Sleepers.
- Reinforcement applications.

Standard	Diameter	Cross section Area	Weight	Tensile Strength	Characteristic value of maximum force	Maximum value of maximum force	Characteristic value of 0,1 % proof force	Minimum Elongation	Maximum curvature
	mm	mm^2	g/m	N/mm^2	KN	KN	KN	%	1m/mm
prEN10138-2	7,00	38,5	300,7	1770	68,1	78,3	59,9	3,5	10
	8,00	50,3	393	1670	84	96,6	73,9		
	9,00	63,6	469,70	1570	99,9	115	87		
	9,40	69,4	542,00	1570	109	125	95		