



Drawn Steel wire

# TRD

Drawn wire in bars cut to length for threaded rod, wrought iron, hinge ace, wire mesh etc. ...

## Applied standards:

The product is in accordance with:

- Tunisian Standard NT 26.135 (ISO 10544)

## Characteristics of the plain wire:

### Manufacturing:

The wire is cold drawn from rods that have been hot rolled from billets

### Chemical composition:

It is a low carbon weldable steel wire

Carbon	Sulphur	Phosphorus	Silicon	Magnesium	Nitrogen	Carbon equivalent
C ≤ 0,22%	S ≤ 0,05%	P ≤ 0,05 %	Si ≤ 0,60 %	Mn ≤ 1,60 %	N ≤ 0,012 %	*Ceq ≤ 0,50%

$$* Ceq = C + Mn/6 + (Cr + V + Mo)/5 + (Cu + Ni)/15$$

### Mechanical characteristics:

Tensile strength	Yield strength	Elongation at max load	Ductility ratio	Bend test
Ts ≥ 550 MPa	Ys ≥ 500 MPa	Agt ≥ 2%	Ts/Ys ≥ 1.03	yes

### \* Other characteristics on demand

- Linear weight tolerance:

Diameter	Tolerance
D ≤ 5mm	+/-9%
5mm > D ≤ 8mm	+/-8%
D > 8mm	+/-5%

- Out of round lower than 0,20mm
- Length tolerance: +/- 3mm
- Special diameter tolerance or bar length to be specified by the customer

- Diameter range from 4mm to 13mm
- Length range from 0,2m to 14m

## Range (diameter, weight kg/m)

Diameter (mm)	Weight kg/m
4	0.099
5	0.154
6	0.222
7	0.302
8	0.395
9	0.499
10	0.616
12	0.888
13	1.042

