

High carbon

Carbon content between 0.50% - 0.85%.

High carbon steel wire, engineered to customer specification for optimal performance. steel wires produced from high quality steel wire rods suitable for manufacture of a wide variety of end applications including springs, rings, textile products, mattress frames, armouring wires, quarry screens, ensuring optimal performance even in demanding working environments.

Mechanical properties

Size range

| | Width min-max (mm) | Thickness min-max (mm) | Diameter min-max (mm) |
|---------------------|---------------------------|-------------------------------|------------------------------|
| Flat cold drawn | 1.50-25.00 | 0.50-5.00 | |
| Shaped cold drawn | 1.50-20.00 | 0.50-5.00 | |
| Flat oil tempered | 1.50-25.00 | 0.50-5.00 | |
| Shaped oil tempered | 1.50-20.00 | 0.50-5.00 | |
| Round cold drawn | | | 1.20-6.70 |
| Round oil tempered | | | 1.20-5.00 |

Technical specification

| Product standard | Steel grade |
|--|---|
| SAE J403 | AISI SAE 1050, 1055, 1060, 1065, 1070, 1075, 1080, 1085, 1090, 1074, 1078, 1084, 1095 |
| EN ISO 16120-2 | C50D, C52D, C56D, C58D, C60D, C62D, C66D, C68D, C70D, C72D, C76D, C78D, C80D, C82D, C86D, C88D, C92D |
| EN ISO 16120-4 | C50D2, C52D2, C56D2, C58D2, C60D2, C62D2, C66D2, C68D2, C70D2, C72D2, C76D2, C78D2, C80D2, C82D2, C86D2, C88D2, C92D2 |
| ISO 683-1 | C50, C55, C60 |
| EN 10270-1 | SL, SM, SH |
| EN 10270-2 | TDC, FDC |
| BS 1449-1.1, BS 1449-1.9, BS 1449-1.11, BS 1449-1.15, BS 1449-1.13, BS 1449-1.15 | K50, K55, K60, K65, K70, K75, K80, K85, K90, KM50, KM55, KM60, KM65, KM70, KM75, KM80, KM85, KM90 |
| EN 10089 | 56Si7 |
| BS 1429 | 090A65, 070A72, 060A96 |

Steel grades and product standards

| Nearest equivalent | EN ISO 16120-2 | EN ISO 16120-4 | SAE J403 | EN 10270-1 | EN 10270-2 |
|--------------------|----------------|----------------|----------|------------|------------|
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| product standards | | | | | |
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