

# 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

	<b>Width min-max (mm)</b>	<b>Thickness min-max (mm)</b>	<b>Diameter min-max (mm)</b>
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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