Steel Wire Products

Sandvik CS-9A

S-2803-ENG November 2001 • Cancels all previous editions

Sandvik CS-9A is a carbon steel wire according to API9A for service in non corrosive conditions in oil and gas environments.

CHEMICAL COMPOSITION (NOMINAL), %

C	Si max	Mn	P max	S max	Cu max
0.7	0.35	0.7	0.040	0.040	0.20

STANDARDS

API9A
DIN 17223 Part 1B

FORMS OF SUPPLY

Sandvik CS-9A is supplied in the form of cold drawn and oiled wire in continuous lengths without welds.

DIMENSIONS

Sandvik CS-9A is available in two alternatives.
Standard Tensile (ST) and Ultra High Tensile (UHT)

Dimension mm	Dimension inch	Breakload kg ST/UHT	Breakload lb ST/UHT	Weight kg/1000m	Weight lb/1000ft
1.830	0.072	435/534	691/1178	21	14
2.083	0.082	561/688	1239/1517	27	18
2.337	0.092	701/859	1547/1895	34	23
2.667	0.105	890/1110	1966/2449	45	30
2.743	0.108	956/1170	2109/2581	48	32
3.175	0.125	1267/1549	2794/3418	62	42

MECHANICAL PROPERTIES

Sandvik CS-9A is available in two alternatives; Standard Tensile (ST) and Ultra High Tensile (UHT). The steel grade is tested and certified in accordance with minimum nominal tensile strength.

At 20°C (68°F)

Tensile strength, ST[1] minimum MPa	Tensile strength, ST[1] minimum ksi	Tensile strength, UHT[2] minimum MPa	Tensile strength, UHT[2] minimum ksi
1575	228	1926	279

[1] ST is Standard Tensile
[2] UHT is Ultra High Tensile

PHYSICAL PROPERTIES

Density	7.9 g/cm^3, 0.29 lb/in^3
Modulus of elasticity, E	206 000 MPa 29 800 ksi
Thermal expansion	20-100°C, 11·10^{-6}/°C 68-210°F, 8·10^{-6}/°F
Thermal conductivity	45 W/m °C, 26 Btu/ft h °F

Recommendations are for guidance only, and the suitability of a material for a specific application can be confirmed only when we know the actual service conditions. Continuous development may necessitate changes in technical data without notice.

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