

WIRE

DATA SHEET ZAPP CS9A-SW WIRELINES



ZAPP IS CERTIFIED ACCORDING TO ISO 9001

ZAPP CS9A-SW

is a carbon steel wire according to API9A for service in non-corrosive conditions in oil and gas wells.

STANDARDS

_ DIN: 17223 part 1

CHEMICAL COMPOSITION (NOMINAL) %

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

FORMS OF SUPPLY

Zapp CS9A-SW is supplied in the form of cold drawn and oiled wire in continuous lengths without welds. Zapp CS9A-SW is available in two alternatives; ST (standard tensile) and UHT (ultra high tensile).

Dimension		Breaking load		Weight	
mm	in.	kN	lbf	kg/1,000 m	lbs/1,000 ft
		ST/UHT	ST/UHT		
2,083	0.082	5.53/6.56	1,244/1,475	26.5	17.8
2,337	0.092	6.97/8.26	1,566/1,857	33.4	22.4
2,667	0.105	8.89/10.76	1,998/2,419	43.5	29.2
2,743	0.108	9.10/11.38	2,114/2,559	46.0	30.9
3,175	0.125	12.6/15.25	2,832/3,428	61.6	41.4

MECHANICAL PROPERTIES

Zapp CS9A-SW is tested and certified in accordance with minimum tensile strength.

At 20 °C (68 °F)

TENSILE STRENGTH, R_m

Dimension		Standard tensile		Ultra high tensile	
mm	in.	MPa	ksi	MPa	ksi
2,083	0.082	> 1,624	> 236	> 1,926	> 279
2,337	0.092	> 1,624	> 236	> 1,926	> 279
2,667	0.105	> 1,591	> 231	> 1,926	> 279
3,175	0.125	> 1,591	> 231	> 1,926	> 279

PHYSICAL PROPERTIES

Density: 7.8 g/cm³, 0.28 lb/in³

Modulus of elasticity: 206 000 MPa, 29 800 ksi

THERMAL CONDUCTIVITY 45 W/m °C, 26 Btu/ft h °F

THERMAL EXPANSION

20 - 100 °C	11*10 / °C
68 - 210 °F	8 * 10 / °F

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