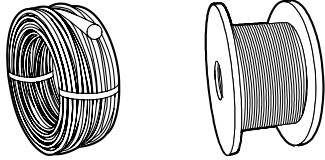


STAINLESS WIRE SLICKLINES

ZAPP IS CERTIFIED TO ISO 9001

ZAPP



SLICKLINES

Wire for slicklines in a wide range of stainless steels and high-alloy materials, suitable for both sour and sweet wells. Zapp's wide range for single-strand slicklines makes it possible to select the most appropriate grade for a specific environment. This contributes to safer operations and longer service life.

FAILURE ANALYSIS

Zapp is capable of carrying out comprehensive slickline material failure analyses.

CUT COSTS WITH STAINLESS STEEL SLICKLINES

Although a higher initial cost, stainless steel slicklines can provide significant savings compared to carbon steel slicklines, which are more susceptible to failure and lost production time.

Even in wells of moderate corrosive conditions, a stainless steel or high-alloy slickline will provide a significantly longer life, meaning:

- _ Less downtime in the well
- _ Fewer slicklines to be purchased
- _ Fewer slicklines to be re-spoiled

SLICKLINE MATERIALS

Zapp's program of wire for slicklines includes stainless steels and high-alloy materials, suitable for both sour and sweet wells. Other grades can be offered on request.

Carbon steel	Description
Sanicro 56Mo (UNS N10276)	A lead-free, hardenable, free-cutting carbon steel characterized by excellent machinability, high hardness, high wear resistance and exceptional dimensional stability after hardening.
Sanicro 26Mo (UNS N08926)	For service in sour oil and gas wells. Very good resistance to stress corrosion cracking (SCC) in H ₂ S, chloride and CO ₂ environments. Very good resistance to pitting and general corrosion. Breaking loads are high. Also suitable as armor wire for multi-strand logging cables.
Sanicro 28 (UNS N08028)	For service in high-temperature sour oils and gas wells. Very good resistance to stress corrosion cracking (SCC) in H ₂ S, chloride and CO ₂ environments. Very good resistance to pitting and general corrosion.
SAF 2507 (UNS S32750)	For service in highly corrosive oil and gas wells. Excellent resistance to stress corrosion cracking (SCC) in chloride and CO ₂ environments. Excellent resistance to pitting and general corrosion in chloride and acidizing environments. Breaking loads are very high.
SAF 2505 (UNS S32205)	For service in corrosive oil and gas wells. High resistance to stress corrosion cracking (SCC) in chloride and CO ₂ environments. High resistance to pitting and general corrosion.
5R60 (UNS S31600, ASTM 316)	For service in less severe corrosive oil and gas wells. Good resistance to general corrosion.
CS-9A	A high-strength carbon steel suitable for use in sweet oil and gas wells.

SLICKLINE LENGTHS*

Wire size, (in.)	Maximum length, ft (approx.)	Maximum length, m (approx.)
0.082	70000	27000
0.092	55000	17000
0.108	40000	12000
0.125	35000	11000
0.140	30000	9000
0.150	30000	9000
0.160	25000	7600

* Zapp's materials for slickline wire is supplied in lengths according to the table.

SIZES AND BREAKING LOADS

The table shows Zapp's program of slickline standard sizes. Slickline wire is supplied on metallic spools and in specified continuous lengths.

Grade (UNS)	Diameter, in.	Minimum breaking load, lbf
Sanicro 56Mo (UNS N10276)	0.108	2391
	0.125	3204
Sanicro 26 Mo (UNS N08926)	0.082	1214
	0.092	1530
	0.108	2105
	0.125	2820
	0.150	4061
	0.160	4621
Sanicro 28 (UNS N08028)	0.082	1149
	0.092	1446
	0.108	1992
	0.125	2669
	0.150	3843
	0.160	4373
SAF 2507 (UNS S32750)	0.092	1735
	0.108	2391
	0.125	3203
	0.140	4018
	0.150	4357
SAF 2205 (UNS S32205)	0.082	1302
	0.092	1639
	0.108	2258
	0.125	3025
	0.140	3795
	0.150	4356
	0.160	4665
5R60 (UNS S31600, ASTM 316)	0.082	1149
	0.092	1446
	0.108	1992
	0.125	2491
	0.150	3587
	0.160	4082
CS-9A	0.082	1475
	0.092	1856
	0.108	2558
	0.125	3427
	0.140	4129

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