

## Special Alloyed Slickline for Service on Oil and Gas Wells

Special Alloyed Rope Dyform for Service on Oil and Gas Wells  
Construction 1X19 (9/9/1) compacted  
Certificate DIN EN 10204-3.1



Chemical Composition of Stainless Steel											
Rope brand	C	Si	Mn	P	S	Cr	Mo	Ni	N	Cu	Ti
<b>ECO 316</b>	0.019	0.35	1.83	0.031	0.026	16.94	2.08	10.05	0.077		
<b>Universal</b>	0.014	0.28	0.79	0.020	0.001	20.90	6.30	24.30	0.182	0.59	

Mechanical Composition of Stainless Steel				
Rope diameter (inch   mm)	Weight 100 m (kg)	Tensile strength (N/mm <sup>2</sup> = MPa)	ECO 316 lbf   kN	Universal lbf   kN
3/16   4.76	12.80	1570 – 1870	4,940   22.00	4,960   22.10
7/32   5.56	16.60	1570 – 1870	6,450   29.00	6,500   26.70
1/4   6.35	22.00	1570 – 1870	8,630   38.50	8,630   38.00
5/16   7.94	29.40	1570 – 1870	13,550   60.40	13,380   59.60

Comparison of the Characteristics of Steel Brands in Different Corrosive Media			
Steel brand	Hydrogen sulfide, carbon dioxide	Chlorides, reservoir waters, salty solutions, etc.	Chloride, hydrogen sulfide, carbon dioxide
<b>ECO 316</b>	Acid resisting, it may be used in concentrations up to 30% CO <sub>2</sub> , without the presence of H <sub>2</sub> S	It may be used in concentrations up to 2 – 3%, provides resistance to pitting corrosion	It may be used in concentrations of H <sub>2</sub> S & CO <sub>2</sub> up to 30% provided that chlorides don't exceed 2 – 3%, without the presence of H <sub>2</sub> S
<b>Universal</b>	Excellent corrosion resistance in every concentration	Excellent resistance to stress corrosion cracking and pitting corrosion under stress	Very good resistance to stress corrosion cracking and intergranular corrosion