X-WIRES / *Eco3* ALLOYED

SPECIAL ALLOYED SLICKLINE WIRE

CHEMICAL COMPOSITION OF STAINLESS STEEL *Eco3*															
Grade	C	Si	Mn	p	S	Cr	Mo	Ni	N	Cu	Ti	W	Co	Fe	PREN*
Eco3	0.019	0.35	1.83	0.031	0.026	16.94	2.08	10.05	0.077	-	-	-	-	-	26

* PREN: Pitting Resistance Equivalent Number (PREN= %Cr + (3.3 x %Mo) + (30 x %N))

MECHANICAL PROPERTIES *Eco3*	
Elongation at Break (%)	<60
Hardness - Brinell	160-190
Impact Strength (J m-1)	20-136
Modulus of Elasticity (GPa)	190-210
Tensile Strength (MPa)	460-860

PHYSICAL PROPERTIES *Eco3*	
Thermal Expansion	16.0 x 10^{-6} (0 to 100 °C)
Thermal Conductivity at 212°F	113 BTU in/Ft^2. h. °F (@212 °F)
Density	0.287 lbs. / in^3 (8.0 g/cm^3)
Melting Point	1398°C(2555°F)
Modulus of Rigidity	70.3 kN/mm^2(10196 ksi)
Modulus of Elasticity	187.5 kN/mm^2(27195 ksi)

COMPARISON OF CHARACTERISTICS OF GRADE IN DIFFERENT CORROSIVE MEDIA *Eco3*
Hydrogen Sulfide, Carbon Dioxide
Acid resisting, it may be used in concentration up to 30% CO2. Without the presence of H2S
Chloride, Seawater, Salty Solution, Etc.
It may be use in concentrations up to 2-3% chloride, provides resistance to pitting corrosion
Chloride, Hydrogen Sulfide, Carbon Dioxide
It may be used in concentrations of H2S+CO2 up to 30% provide that chlorides don't exceed 2-3% without the presence of H2S temperature up to 150°c

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Diameter (inch)	Breaking Load (lbf.)	Breaking Load (kN)
0.66''	736	3.27
0.72''	875	3.89
0.82''	1135	50.05
0.92''	1430	6.36
0.108''	1960	8072
0.125''	2640	11.74
0.140''	3325	14.79
0.160''	4220	16.90