



## SPECIFICATIONS FOR STAINLESS STEEL SEVEN-WIRE PRESTRESSING STRAND

**Stainless Steel Alloy:** 2205 (UNS: S32205) Duplex

ASTM A1114 – STAINLESS STEEL SEVEN-WIRE PRESTRESSING STRAND										
Grade	Nominal Strand Diameter in [mm]	Strand Diameter Tolerance in [mm]	Minimum Breaking Strength Lbf [kN]	Min. Yield Strength at 1% Extension Lbf [kN]	Minimum Elongation %	Nominal Area in <sup>2</sup> [mm <sup>2</sup> ]	Nominal Modulus of Elasticity psi [kN/mm <sup>2</sup> ]	Min. Diameter Difference C/W and O/W in [mm]	Nominal Pitch	Nominal Weight Lbs/1,000 ft Kg/1,000 m
240K	0.52 [13.2]	+0.016, -0.016 [+0.40, -0.40]	40,100 [179]	36,100 [161.1]	1.4	0.167 [108]	24.3 x 10 <sup>6</sup> [167.5]	0.003 [0.076]	12 x dia   16 x dia	570 [840]
	0.62 [15.7]		55,400 [248]	49,860 [223.2]		0.231 [150]		0.004 [0.102]		780 [1,200]

NOTE: Other sizes available upon request.

RELAXATION PROPERTIES	
Initial Stress	Maximum Relaxation after 1000 Hours
70% Specified Minimum Breaking Strength	2.5%
80% Specified Minimum Breaking Strength	3.5%

USAGE NOTE: 0.52” and 0.62” 240 ksi stainless steel strands are typically compatible with the equivalent ½” and 6/10” prestressing chucks. It is up to the user to verify this compatibility with their chuck supplier.