



SPECIFICATION SHEET

MIN. WALL THICKNESS: 87.5%

4-1/2" P-110 15.10 LBS/FT, HYDRIL 513 TUBING

PIPE BODY DATA

NOMINAL OD (in.)	4.5
NOMINAL ID (in.)	3.826
NOMINAL WEIGHT (lbs/ft)	15.1
AVERAGE JOINT WEIGHT (lbs)	679.5
AVERAGE LENGTH	Range 3
PIPE GRADE	P-110
NOMINAL WALL (in.)	0.337
TUBE DRIFT (in.)	3.701
BODY YIELD STRENGTH (lbs)	428,000
COLLAPSE (psi)	13500
INTERNAL YIELD (psi)	14400
SPECIFIED MINIMUM YIELD STRENGTH (psi)	110,000
CAPACITY (BBL./LIN. FT.)	0.01422
CAPACITY (LIN. FT./BBL.)	70.32

CONNECTION DATA

CONNECTION	HYDRIL 513
CONNECTION OD (in.)	4.5
CRITICAL SECTION AREA (sq. in.)	2.781
CONNECTION ID (in.)	3.744
COMPRESSION STRENGTH (lbs)	359,000
EXTERNAL PRESSURE CAPACITY (psi)	14,350
INTERNAL PRESSURE CAPACITY (psi)	14,420
JOINT YIELD STRENGTH (lbs)	306,000
BENDING (100 ft)	71 degrees
MAKE-UP TORQUE MINIMUM (ft-lbs)	5100
MAKE-UP TORQUE OPTIMUM (ft-lbs)	6100
MAKE-UP TORQUE MAXIMUM (ft-lbs)	8900

Note: All used figures have **NO** safety factor included for tension, temperature, or general S.F. etc.

Note: All proprietary connection data obtained from premiumconnectiondata.tenaris.com

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