



FuchsRohr® AluDrill550™ High Performance Pipe (HPP)

Pipe configuration 5 ½ internal upset			
Tool Joint	Tool Joint 5.5 FH		
Dimensions and weights	New	Premium	Class 2
OD nominal (in)	5.63	5.43	5.33
ID nominal (in)	4.63	4.63	4.63
ID min (in)	3.94	3.94	3.94
Wall Thickness (in)	0.50	0.40	0.35
Remaining Body Wall (%)	100	80	70
Reduction in OD (%)	0	3.6	5.3
Cross Section Area (in ²)	8.06	6.32	5.48
Weight Pipe (lb)	312.0		

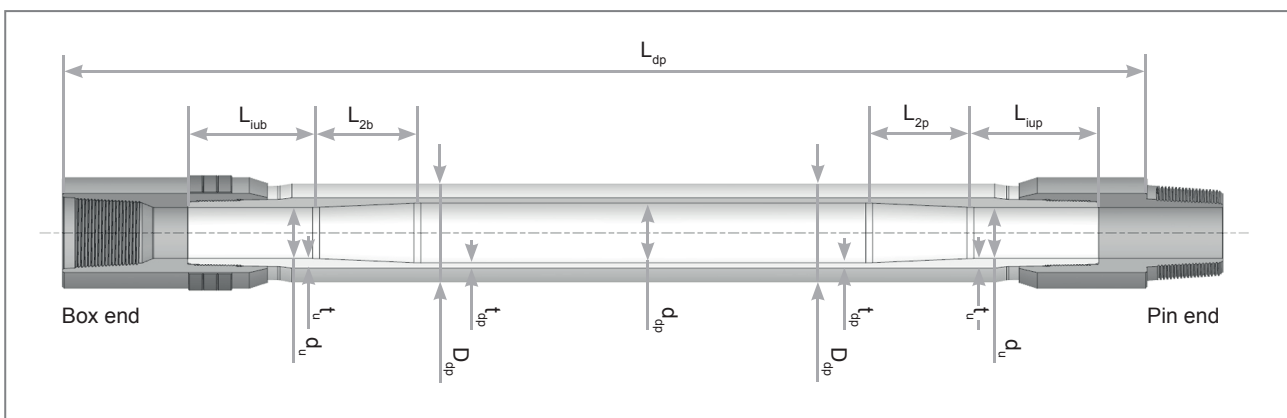
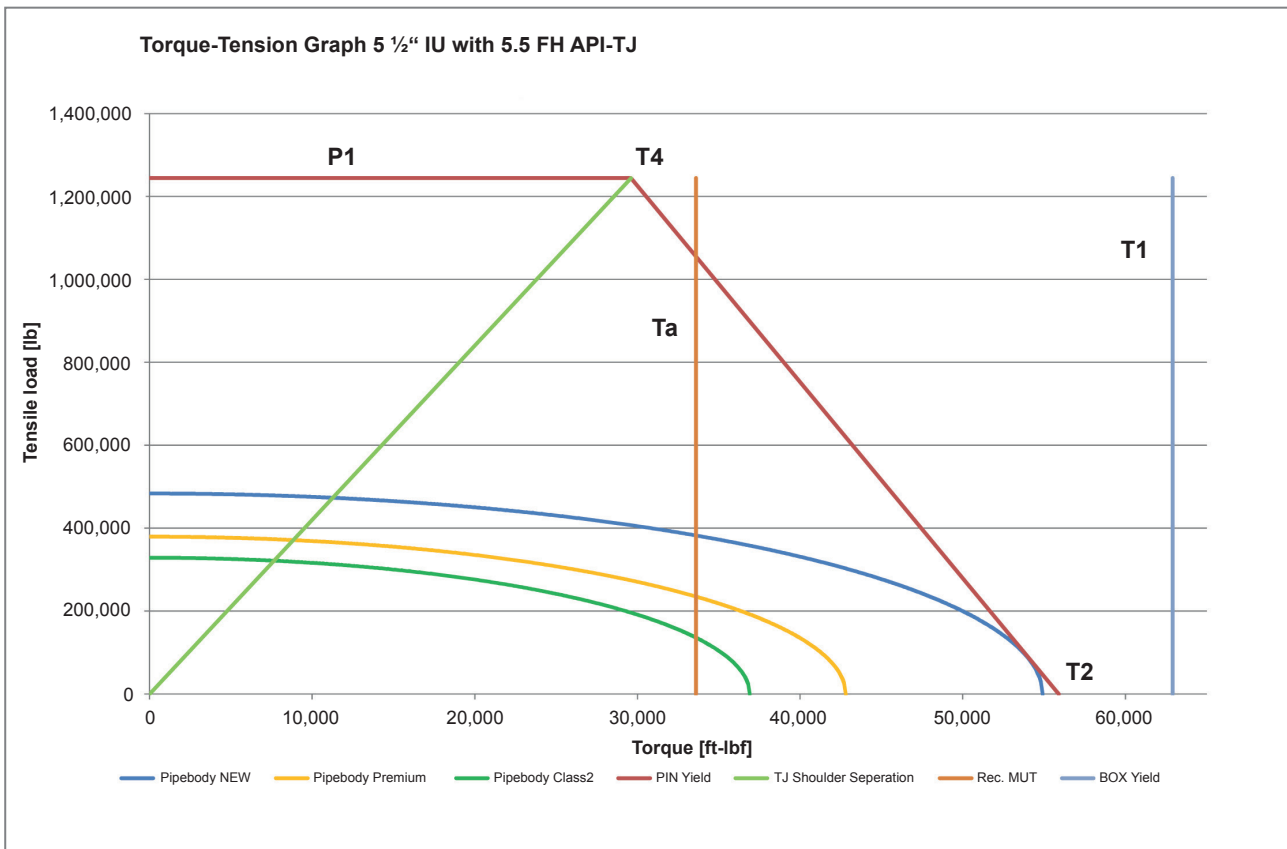
Pipe Body Alloy HPP K60 R _{p0,2} = 60 ksi (415 N/mm ²)			
Tensile Strength (lb)	483,500	379,300	328,500
Modulus (msi)	10.60	10.60	10.60
Torsional Yield Strength (ft-lbf)	54,900	42,800	36,900
80% Torsional Yield Strength (ft-lbf)	43,920	34,240	29,520
Collapse Resistance (psi)	8,900	6,400	5,100
Internal Yield Pressure (psi)	10,700	8,800	7,900

Tool Joint	5.5 FH
OD Tool Joint (in)	7
ID Tool Joint (in)	4
Box Tong Length, L _b (in)	17
PIN Tong Length, L _p (in)	14
Yield Strength (ksi)	120
Weight Tool Joint (lb)	198.00
Tensile Yield Strength (lbf)	1,244,500
Torsional Yield Strength (ft-lbf)	55,900
Recommended Make-Up-Torque (ft-lbf)	33,600

Assembly TJ + Pipe	
Weight Tool Joint + Pipe (lb)	510
Adjusted Weight Air (lb/ft)	16.20
Adjusted Weight In 12 lb/gal mud (lb/ft)	9.90
Torsional Ratio TJ/Pipe	1.02
Shoulder To Shoulder Length (ft)	31.50
Open Displacement (US gal/ft)	0.52
Closed Displacement (US gal/ft)	1.36
Capacity (US gal/ft)	0.84



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L_{dp}	pipe length with tool joint (shoulder - shoulder)	378.00 in
L_{iub}	length of internal upset end (Box end)	32.00 in
L_{iup}	length of internal upset end (Pin end)	13.00 in
L_{2b}	length of internal upset end transition zone (Box end)	9.50 in
L_{2p}	length of internal upset end transition zone (Pin end)	9.50 in
D_{dp}	outside diameter of the pipe body	5.63 in
d_{dp}	inside diameter of the pipe body	4.63 in
d_u	minimum inside diameter of the pipe	3.94 in
t_u	wall thickness of upset end	0.85 in
t_{dp}	wall thickness of pipe body	0.50 in

