



FuchsRohr® AluDrill658™ High Performance Pipe (HPP)

Pipe configuration 6 5/8" internal upset			
Tool Joint	Tool Joint 6.625 FH		
Dimensions and weights	New	Premium	Class 2
OD nominal (in)	6.87	6.64	6.52
ID nominal (in)	5.72	5.72	5.72
ID min (in)	4.75	4.75	4.75
Wall Thickness (in)	0.58	0.46	0.40
Remaining Body Wall (%)	100	80	70
Reduction in OD (%)	0	3.3	5.0
Cross Section Area (in ²)	11.37	8.93	7.74
Weight Pipe (lb)	447.0		

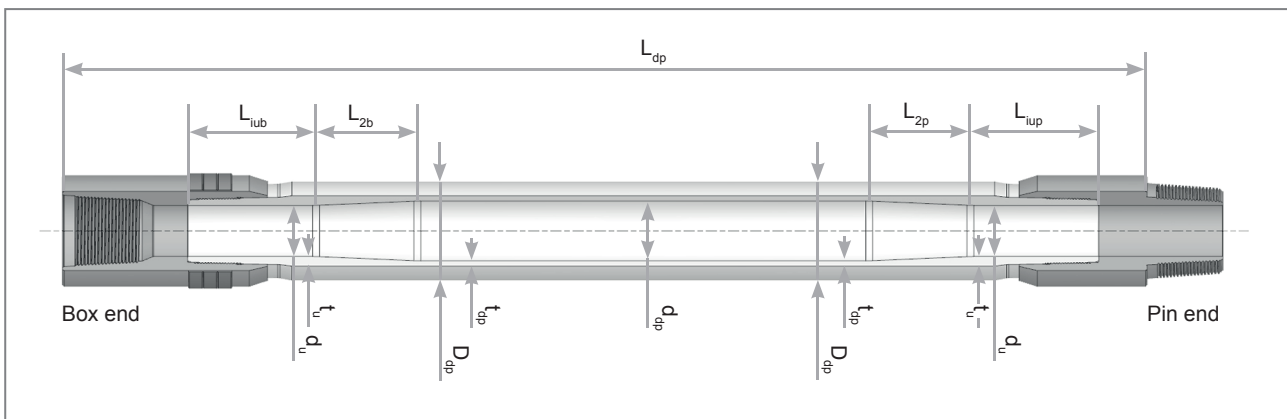
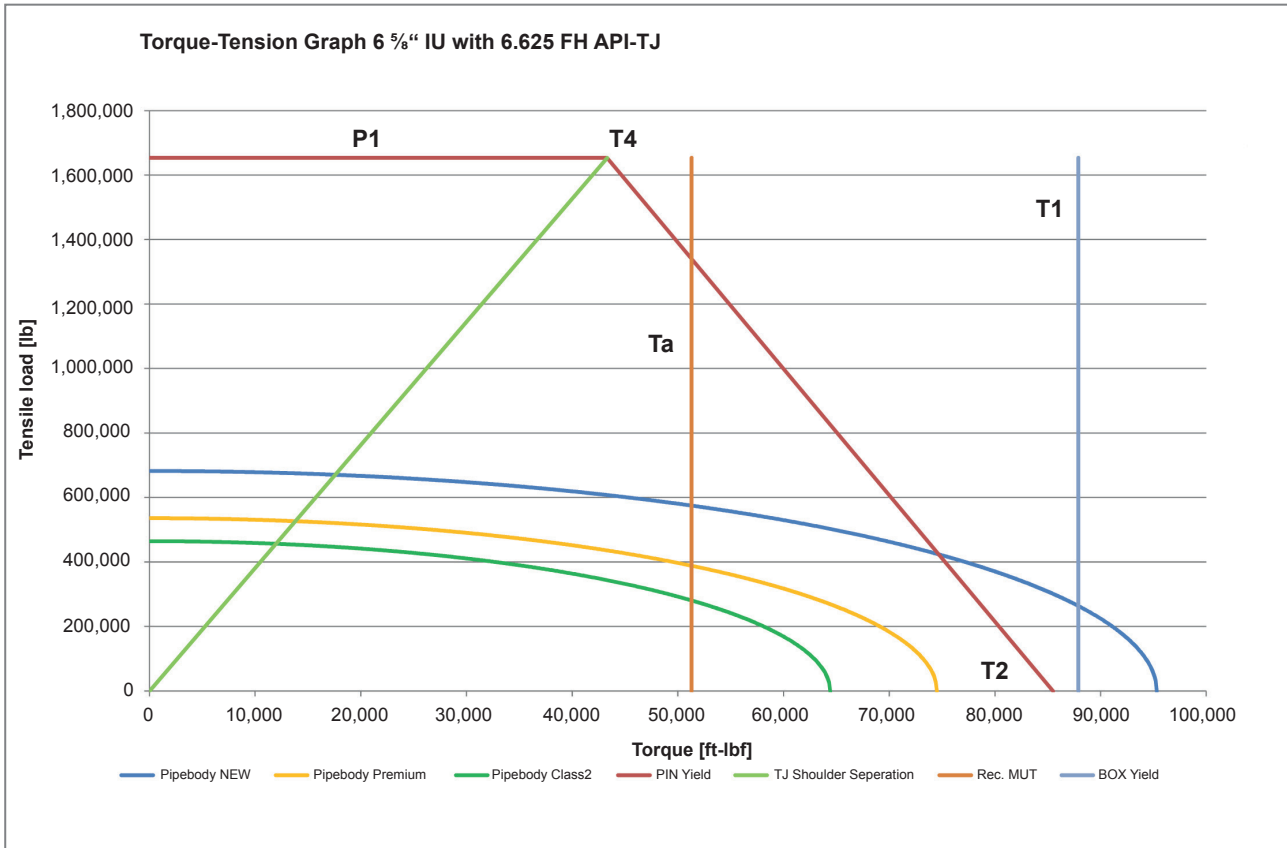
Pipe Body Alloy HPP K60 R _{p0,2} = 60 ksi (415 N/mm ²)			
Tensile Strength (lb)	682,100	535,700	464,400
Modulus (msi)	10.60	10.60	10.60
Torsional Yield Strength (ft-lbf)	95,300	74,500	64,400
80% Torsional Yield Strength (ft-lbf)	76,240	59,600	51,520
Collapse Resistance (psi)	8,100	5,600	4,400
Internal Yield Pressure (psi)	10,000	8,300	7,400

Tool Joint	6.625 FH
OD Tool Joint (in)	8
ID Tool Joint (in)	4 3/4
Box Tong Length, L _b (in)	17
PIN Tong Length, L _p (in)	14
Yield Strength (ksi)	120
Weight Tool Joint (lb)	241.00
Tensile Yield Strength (lbf)	1,653,200
Torsional Yield Strength (ft-lbf)	85,500
Recommended Make-Up-Torque (ft-lbf)	51,300

Assembly TJ + Pipe	
Weight Tool Joint + Pipe (lb)	688
Adjusted Weight Air (lb/ft)	21.8
Adjusted Weight In 12 lb/gal mud (lb/ft)	13.20
Torsional Ratio TJ/Pipe	0.90
Shoulder To Shoulder Length (ft)	31.50
Open Displacement (US gal/ft)	0.72
Closed Displacement (US gal/ft)	2.00
Capacity (US gal/ft)	1.27



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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	6.87 in
d_{dp}	inside diameter of the pipe body	5.72 in
d_u	minimum inside diameter of the pipe	4.75 in
t_u	wall thickness of upset end	1.06 in
t_{dp}	wall thickness of pipe body	0.58 in

