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PERFORMANCE PROPERTIES

4"OD Drill Pipe Grade SS105 IU w/3,1/2" IF Tough Torque (TT38) Connections

<u>Pipe Properties</u>	NEW	PREMIUM	Class 2
OD	4.000 in.	3.848 in.	3.772 in.
Wall Thickness	0.380 in.	0.304 in.	0.266 in.
ID	3.240 in.	3.240 in.	3.240 in.
Pipe Body Area	4.322 in ²	3.385 in ²	2.930 in ²
ID Area	8.245 in ²	8.245 in ²	8.245 in ²
Section Modulus (Bending)	3.578 in ³	2.782 in ³	2.401 in ³
Polar Section Modulus (Torsion)	7.157 in ³	5.564 in ³	4.801 in ³
Torsional Strength	36,134 ft.lbs	28,094 ft.lbs.	24,241 ft.lbs
Tensile Strength	453,765 lbs.	355,391 lbs.	307,633 lbs.
Burst Pressure	17,456 psi	15,960 psi	13,965 psi
Collapse Pressure	18,055 psi	15,190 psi	12,374 psi

Tool Joint Properties

OD	5 in.	4,11/16 in.	4,9/16 in.
ID	2,9/16 in.	2,9/16 in.	2,9/16 in.
Pin Tong	10 in	10 in.	10 in.
Box Tong	12,1/2 in.	12,1/2 in.	12,1/2 in
Torsional Strength	25,167 ft.lbs	22,660 ft.lbs.	19,429 ft.lbs
Recommended Makeup Torque	15,100 ft.lbs	13,596 ft.lbs	11,657 ft.lbs
Tensile Strength	595,061 lbs	595,061 lbs	595,061 lbs
Torsional Ratio	0.70		

Assembly Properties

Est. Open Ended Displacement	0.27 gal/ft
Est. Closed End Displacement	0.68 gal/ft
Est. Capacity	0.41 gal/ft
Est. Weight per Foot	17.53 lbs/ft
Est. Weight per Joint	537 lbs.

3,1/2" IF Tough Torque (NC38TT) Connections are interchangeable with API 3,1/2" IF (NC38) Connections

New Pipe Specifications:

Do not exceed 80% of pipe yield, pressures or recommended makeup torque without approval from Viper Rentals & Equipment Ltd.