

4-3/4" OD X 2.250" ID DRILL COLLAR, SPIRAL, AISI 4145, NC38

## DRILL COLLAR BODY

Nominal OD (in)	4-3/4
Nominal ID (in)	2.250
Pipe Wall Thickness (in)	1.250
Surface Finish	SPIRAL
Grade	AISI 4145
Cross Sectional Area of Pipe Body (in <sup>2</sup> )	13.745
Cross Sectional Area OD (in <sup>2</sup> )	17.721
Cross Sectional Area ID (in <sup>2</sup> )	3.976
Section Modulus (in <sup>3</sup> )	9.992
Polar Section Modulus (in <sup>3</sup> )	19.984
Momet of Inertia Drill Collar Body (in <sup>4</sup> )	23.73
Polar Moment of Inertia Drill Collar Body (in <sup>4</sup> )	47.46

## DRILL COLLAR CONNECTION

Connection	NC38
OD (in)	4.750
ID (in)	2.250
Torsional Strength (lbs/ft)	17,576
Tensile Yield Strength (lbs)	625,799
Minimum Make-up Torque (lbs/ft)	9,986
Maximum Make-up Torque (lbs/ft)	10,985
BSR	2.217

## DRILL COLLAR ASSEMBLY

Adjusted Weight (lbs/ft)	49.80
Approx Average Length (ft)	31.00
Open End Displacement (gal/ft)	0.71
Closed End Displacement (gal/ft)	0.92
Fluid Capacity (gal/ft)	0.21
Drift Size (in)	2.125

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