

4-3/4" OD X 2.250" ID DRILL COLLAR, SLICK, AISI 4145, 3-1/2" TS6

DRILL COLLAR BODY

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| Nominal OD (in) | 4-3/4 |
| Nominal ID (in) | 2.250 |
| Pipe Wall Thickness (in) | 1.250 |
| Surface Finish | SLICK |
| Grade | AISI 4145 |
| Yield Strength (ksi) | 110 MINIMUM |
| Tensile (ksi) | 140 MINIMUM |
| Cross Sectional Area of Pipe Body (in ²) | 13.745 |
| Cross Sectional Area OD (in ²) | 17.721 |
| Cross Sectional Area ID (in ²) | 3.976 |
| Section Modulus (in ³) | 9.992 |
| Polar Section Modulus (in ³) | 19.984 |
| Momet of Inertia Drill Collar Body (in ⁴) | 23.73 |
| Polar Moment of Inertia Drill Collar Body (in ⁴) | 47.46 |

DRILL COLLAR CONNECTION

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| Connection | 3-1/2" TS6 |
| OD (in) | 4.750 |
| ID (in) | 2.250 |
| Minimum Make-up Torque (lbs/ft) | 7,000 |
| Maximum Make-up Torque (lbs/ft) | 8,800 |
| BSR | 2.350 |
| Burst Pressure (psi) | 22,500 |
| Collapse Pressure (psi) | 22,959 |

DRILL COLLAR ASSEMBLY

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| Adjusted Weight (lbs/ft) | 43.50 |
| 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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