| TASMAN 🔊 | DOC TITLE: DRILL PIPE PERFORMANCE DATA SHEET REV: NA | | DOC. NO. TAS-RT-DP-018 Page 1 of 1 | | |
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| | | Pipe PRMANCE DATA SHEET | Pipe Grade: S13 Range: 2 | 00_19.50 LB/FT IEU 35 25 X 3.25 NC50 | _ |
| DRILL PIPE DIMENSIONS & MA | TERIALS New (Nominal) | DRILL PIPE WEAR & MECH | IANICAL PERFORMANCE | | EMIUM |
| Pipe Size Pipe Grade Pipe Length Range 2 or 3 ID Calculated Plain End Weight Cross Sectional Area OD Cross Sectional Area ID | in 5_19.50 LB/FT IEU S135 2 in 4.276 Lbs/ft 17.932 In Sq. 19.635 In Sq. 14.360 | OD Wall Thickness Cross Sectional Area F Section Polar Section Tensile Streng Torsional Stre 80% Torsiona Internal Pressur | Modulusin CuModulusin Cugthlbsengthft lbsIl Strengthft lbs | 5.000 4.85 0.362 0.29 5.275 4.15 5.708 4.47 11.415 8.95 712,070 560,70 74,100 58,1 59,280 46,4 17,105 15,6 | 0 4 6 3 64 14 91 |
| Tensile Strength Torsional Strength 80% Torsional Strength | lbs 712,070 ft-lbs 74,100 ft-lbs 59,280 | Collapse Cap Tool Joint/Pipe Body/Tors | acity psi | 15,672 10,0 0.698 0.8 | 29 |
| TOOLJOINT | New (Nominal) | DRILL PIPE ASSEMBLY | | New <u>(Nominal</u>) | |
| Connection Type Material Yield Strength Outside Diameter (OD) Inside Diameter (ID) Pin Tong Length Box Tong Length Pin shoulder Angle Tensile Strength Torsional Strength Max. Make-Up Torque Min. Make-up Torque Balanced OD | NC50 ksi 120 in 6.625 in 3.250 in 11.000 in 14.000 deg 35 lbs 1,249,755 ft-lbs 51,708 ft-lbs 36,200 ft-lbs 25,900 in 6.389 | Adjuste Maximum Fluid Disp | | 31.00 23.70 3.125 1.072 0.710 | |

Premium properties are calculated based on uniform Outside Diameter and Wall Thickness

Torque performances are calculated with coefficient of friction factor, 0.08.

API recommends a torsional ratio of 0.8 or greater

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