| COMPI | DRILL PIPE PERFORMANCE DATA SHEET | | | | | | |
|-------------------------|-----------------------------------|--------|---|------------------|----------------|----------------------|--------|
| COLLIE | 5 | - | Pipe Size: 2.375 | in | Grade: | S135 Range: | 2 |
| GRUUF | | | Pipe Weight: 6.65 | lb/ft | Upset: | EU Connection: | CTP 23 |
| Pipe | | | | | | | |
| | | | | | NEW | API PREMIUM | |
| Pipe size | in | 2.375 | OD | in | 2.375 | 2.263 | |
| Pipe weight | lb/ft | 6.65 | Thickness | in | 0.280 | 0.224 | |
| Upset Type | | EU | X-Sec Area | in ² | 1.843 | 1.435 | |
| Tube grade | | S135 | Section Modulus | in ³ | 0.867 | 0.6670 | |
| Range | | 2 | Polar Section Modulus | in ³ | 1.733 | 1.3340 | |
| Tube Yield | ksi | 135 | Tensile Yield | lbs | 249,000 | 194,000 | |
| ID | in | 1.815 | Torsional Yield | ft-lbs | 11,300 | 8,700 | |
| | | | 80% Torsional Yield | ft-lbs | 9,000 | 6,960 | |
| | | | Internal Pressure Yield | psi | 27,900 | 25,500 | |
| | | | Collapse Yield | psi | 28,100 | 24,100 | |
| | | | D/t | | 8.48 | 10.10 | |
| | | | Connection/Tube Torsional Ratio | | 0.577 | | |
| | | | | | | | |
| Tool Joint | | | | | | | |
| | | | | | NEW | REC MIN OD | |
| Connection Type | | CTP 23 | OD | in | 2.875 | 2.813 | |
| Material Yield Strength | ksi | 130 | Tensile Yield Strength | lbs | 232,500 | 232,500 | |
| OD | in | 2.875 | Torsional Yield Strength | = | 6,500 | 6,500 | |
| ID | in | 1.500 | Recommended Makeup Torque | = | 3,900 | 3,900 | |
| Pin Shoulder Angle | deg | 35 | Enhanced Makeup Torque | ft-lbs | 4,600 | 4,500 | |
| Pin Tool Joint Length | in | 11.0 | | | | | |
| Box Tool Joint Length | in | 13.0 | | | | | |
| | | | | | | | |
| Drill Pipe Assembly | | | | | | | |
| | | | Shoulder-Shoulder Length | ft | 31.5 | | |
| | | | | | | | |
| | | | Adjusted Weight | - | 6.96 | | |
| | | | Closed End Displacement | gal/ft | 0.237 | <i>bbl/ft</i> 0.0056 | |
| | | | Closed End Displacement Open End Displacement | gal/ft gal/ft | 0.237 0.106 | <i>bbl/ft</i> 0.0025 | |
| | | | Closed End Displacement | gal/ft gal/ft | 0.237 | | |

The information contained in this data sheet and other attached documentation is for reference use only. It is not intended to imply any explicit recommendation regarding processes, procedures, or performance of the end product. It is the responsibility of the end user to verify and determine the appropriate use of the technical information - no expressed or implied warranty by Complete Group is intended.

Calculations are based on uniform wall thickness and outside diameter – no safety factor has been applied. The information provided for inspection classes is based on uniform wear and is not intended to recommend or confirm operational limits of any used product. It is recommended that drilling torque not exceed 80% of the makeup torque, however it is the responsibility of the end user to determine the acceptable use of the end product including appropriate performance ratings and safety factors where applicable. All connection torque calculations have been performed using a thread compound friction factor of 1.0. Complete Group does not endorse any specific thread compound and waives all responsibility in determining appropriate makeup torque values for any specific drilling circumstance. Modifying makeup torque values for any reason shall be done at the end users discretion and risk.

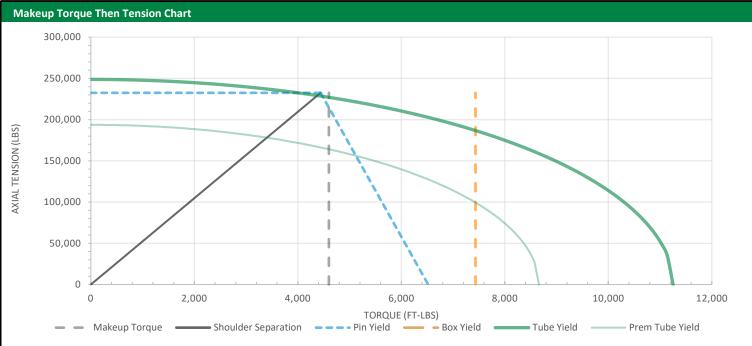
The information in this publication is subject to change without notice, please contact Complete Group for the latest publication

COMPLETE GROUP

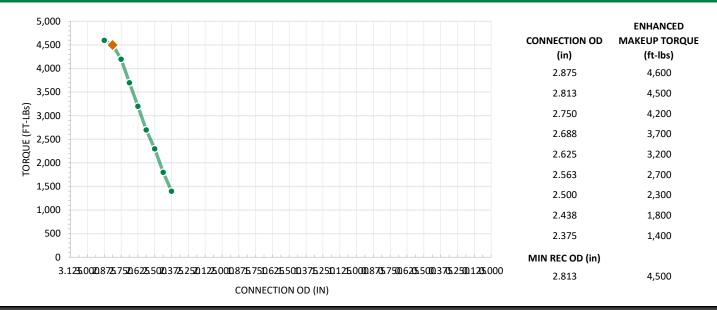
DRILL PIPE PERFORMANCE DATA SHEET

Pipe Size: 2.375 in Grade: S135 Range: 2

Pipe Weight: 6.65 lb/ft Upset: EU Connection: CTP 23



Connection Wear Chart



The information contained in this data sheet and other attached documentation is for reference use only. It is not intended to imply any explicit recommendation regarding processes, procedures, or performance of the end product. It is the responsibility of the end user to verify and determine the appropriate use of the technical information - no expressed or implied warranty by Complete Group is intended.

Calculations are based on uniform wall thickness and outside diameter – no safety factor has been applied. The information provided for inspection classes is based on uniform wear and is not intended to recommend or confirm operational limits of any used product. It is recommended that drilling torque not exceed 80% of the makeup torque, however it is the responsibility of the end user to determine the acceptable use of the end product including appropriate performance ratings and safety factors where applicable. All connection torque calculations have been performed using a thread compound friction factor of 1.0. Complete Group does not endorse any specific thread compound and waives all responsibility in determining appropriate makeup torque values for any specific drilling circumstance. Modifying makeup torque values for any reason shall be done at the end users discretion and risk.

The information in this publication is subject to change without notice, please contact Complete Group for the latest publication