



PATTERSON RENTAL TOOLS

4 1/2" SLIM HOLE GRADE S-135 16.60 LBS DRILL PIPE W/ DS-42 CONNECTIONS

Product:	4 1/2" SH	DP412SHS135WDS42
Tube Size:	4 1/2"	In.
Normal Weight per Foot:	16.60	Lbs.
Tube Grade:	S-135	
Connection:	DS-42	

TUBE SPECIFICATIONS

Inside Diameter:	3.826	In.
Wall Thickness:	0.337	In.
Tensile Yield New:	595,004	Lbs.
Premium:	468,297	Lbs.
Torsional Yield New:	55,453	Ft.-Lbs.
Premium:	43,450	Ft.-Lbs.
PSI Burst (New/Premium):	17,693 / 16,176	PSI
Collapse (New/Premium):	16,773 / 10,964	PSI

ENGINEERING DATA

Drift Diameter:	2.688	In.
Adjusted Weight per Foot:	18.26	Lbs./Ft.
Average Joint Length/Weight:	31	Ft.
Displacement (Open):	0.2729	Gal./Ft.
	0.712	Bbl./100 Ft.
Capacity:	0.5726	Gal./Ft.
	1.386	Bbl./100 Ft.

CONNECTION SPECIFICATIONS

Outside Diameter:	5.25	In.
Minimum OD:	5.094	In.
Inside Diameter:	2.813	In.
Tensile Yield New:	903,400	Lbs.
Approx. Tension to Yield Pin at Recommended Make-Up Torque:	579,100	Lbs.
Torsional Strength New:	42,190	Ft.-Lbs.
Recommended Torque New:	30,000*	Ft.-Lbs.
ID Markings:	1 groove	
Minimum usage length:	Box 6 1/2" Pin 6"	

* Make up torque is based on 60% torsional strength of connection including 1.2 friction factor thread compound.

* Technical information contained herein is furnished without charge or obligation and is given and accepted at recipient's sole risk. Because conditions of use may vary and are beyond our control, Patterson Services, Inc. makes no representation about, and is not responsible or liable for the accuracy or reliability of the data, described herein. Nothing contained in this document shall be considered a recommendation for any use that may infringe patent rights, or an endorsement of any particular material, equipment, service, or other item. The properties listed in this document are not specification. They are provided as information only and in no way modify, amend, enlarge or create any specification or warranty.

Tubing
1" thru 4-1/2"

Drill Pipe
2 3/8" thru 5 1/2"

Heavy Weight Drill Pipe
2 7/8" thru 6 5/8"

Drill Collars
2 7/8" thru 10"

Blow-Out Preventers
Annular Type
2 9/16" 5M thru 29 1/2" 500 PSI

Hydraulic Ram Type
Single and Double
3 1/16" 10M thru 16 3/4" 5M

Valves Manual & Hydraulic
12" Ball Valves
2 1/16" 5M thru 4 1/16" 15M