SUCKER ROD SPECIFICATIONS

Norris Rod

Rod Grade / Type	Physical Properties		Maximum Recommended Torque Ft. Lbs			
	Tensile Strength 1000 PSI	Yield Strength 1000 PSI	13/16"	7/8"	1"	1 1/4"
D/54	115-140	85 Min	-	675	1,010	-
D/78	115-140	85 Min	-	735	1,100	2,000
D/75	115-140	90 Min	-	750	1,110	2,100
SS/96	135-150	115 Min	-	800	1,200	N/A
SS/97	140-150	115 Min	-	800	1,200	2,500
Weight, lbs/ft	-	-		2.22	2.90	4.17
PRODROD			**13/16"**	**7/8"**	**1"**	**1 1/8"**
Grade D Carbon (620C) AISI 536M	120	85	540	680	1,015	1,445
Grade D Alloy (780M) AISI 120M	120	100	565	735	1,100	1,535
Grade D Special Alloy (750N) AISI 330M	125	100	580	750	1,110	1,550
Specail Service (960M) AISI 120M	140	115	725	900	1,350	1,900
Special Service Carbon (970N) AISI 4330	140	115	725	900	1,350	1,900
Weight, lbs/ft	-	-	1.76	2.04	2.67	3.38

- Exclusive to AOT Non API rod designed for torsional application
- Use larger rod size rather than higher grade to achieve more torque
- 1" Rod with 7/8" pins have the same torque rating as 1" rods
- No derating for slim hole couplings
- Conversion Ft. Lbs to Nm multiply by 1.36

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Rod Coupling Sizes

Rod Size, IN, (mm)	Outside diameter, IN. (mm)			Coupling Length	Approx. Weight LBS. (kg)
	Full Size	Slim Hole	Oversize		
3/4" (19.05)	1 1/2" (38.1)	1 1/4" (31.75)	-	4"	1.3 (0.59)
7/8" (22.23)	1 13/16" (46.04)	1 5/8" (41.25)	2" (50.80)	4"	1.7 (0.77)
1" (25.40)	2 3/16" (55.56)	2" (50.80)	2 3/8" (60.33)	4"	2.7 (1.22)
1 1/8" (28.58)	2 3/8" (60.33)	2 1/4" (57.15)	-	4 1/2"	3.4 (1.54)

- 1 1/4" drive rods have 1" pins, 30% more threads have been added shortening the undercut area.

Maximum Allowable Torque for Polished Rods (ft. lbs.)

Rod Size	Piston (c1045)	Norloy (8620)	431 SS	4140 Alloy
1 1/4"	1,800	1,800	1,800	1,800
1 1/2"	2,800	2,800	2,800	2,800

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