

DRILL COLLARS

ACT drill collars, are made from ultrasonically tested bars of Chrome Molybdenum Alloy Steel (AISI 4145H modified material) and available in all sizes and connections as per API std 7 & API-RP 7G in Range 2. Drill collar bars are fully heat treated to 285 to 341 BHN and Charpy impact value of 40 ft. Lb.

Physical Properties

Drill Collar O.D. Range (inches)	Yield Strength (min) (psi) (n/mm ²)	Tensile Strength (min) (psi) (n/mm ²)	Elongation (min) With Gage Length 4 Times Diameter	Brinell Hardness (min.)	Min. Charpy Impact Value Ft Lb.
3.1/8 THRU 6.7/8	110000 /758	140000 /965	13%	285	40
7 THRU 10	100000 /689	135000 /931	13%	277	40

Drill Collars can be furnished in sizes and dimensions given in the table below.

Drill Collar Number	Outside Dia D"	Bore +1 /16" -0 d"	Length +6" L'	Bevel Dia +1 /64" D"f	Reference Bending Strength Ratio
NC 23-31	3.1/8	1.1/4	30	3	2.57:1
NC 26-35 (2.3/8 IF)	3.1/2	1.1/2	30	3.17/64	2.42:1
NC 31-41 (2.7/8 IF)	4.1/8	2	30 or 31	3.61/64	2.43:1
NC 35-47	4.3/4	2	30 or 31	4.33/64	2.58:1
NC 38-50 (3.1/2 IF)	5	2.1/4	30 or 31	4.49/64	2.38:1
NC 44-60	6	2.1/4	30 or 31	5.11/16	2.49:1
NC 44-60	6	2.13/16	30 or 31	5.11/16	2.84:1
NC 44-62	6.1/4	2.1/4	30 or 31	5.7/8	2.91:1
NC 46-62 (4 IF)	6.1/4	2.13/16	30 or 31	5.29/32	2.63:1
NC 46-65 (4 IF)	6.1/2	2.1/4	30 or 31	6.3/32	2.76:1
NC 46-65 (4 IF)	6.1/2	2.13/16	30 or 31	6.3/32	3.05:1
NC 46-67 (4 IF)	6.3/4	2.1/4	30 or 31	6.9/32	3.18:1
NC 50-70 (4.1/2 IF)	7	2.1/4	30 or 31	6.31/64	2.54:1
NC 50-70 (4.1/2 IF)	7	2.13/16	30 or 31	6.31/64	2.73:1
NC 50-72 (4.1/2 IF)	7.1/4	2.13/16	30 or 31	6.43/64	3.12:1
NC 56-77	7.3/4	2.13/16	30 or 31	7.19/64	2.70:1
NC 56-80	8	2.13/16	30 or 31	7.31/64	3.02:1
6.5/8 REG.	8.1/4	2.13/16	30 or 31	7.45/64	2.93:1
NC 61-90	9	2.13/16	30 or 31	8.3/8	3.17:1
7.5/8 REG.	9.1/2	3	30 or 31	8.13/16	2.81:1
NC 70-97	9.3/4	3	30 or 31	9.5/32	2.57:1
NC 70-100	10	3	30 or 31	9.11/32	2.81:1
8.5/8 REG.	11	3	30 or 31	10.1/2	2.84:1

