

API 5DP DRILL PIPE

Size designation in	Calculated weight	Tool joint designation	Calculated weight		Grade	Wall thickness		Upset ends
			1b/ft	Kg/m		in	mm	
2 3/8?	6.65	NC26	6.26	9.32	E.X.G.S	0.28	7.11	EU
2 7/8?	10.4	NC31	9.72	14.48	E.X.G.S	0.362	9.19	EU
3 1/2?	13.3	NC38	12.31	18.34	E.X.G.S	0.368	9.35	EU
3 1/2?	15.5	NC38,NC40	14.63	21.79	E.X.G.S	0.449	11.4	EU
4?	14	NC40,NC46	12.93	19.26	E.X.G.S	0.33	8.38	IU,EU
4 1/2?	16.6	NC46,NC50	14.98	22.31	E.X.G.S	0.337	8.56	EU,IEU
4 1/2?	20	NC46,NC50	18.69	27.84	E.X.G.S	0.43	10.92	EU,IEU
5?	19.5	NC50,NC52	17.93	26.71	E.X.G.S	0.362	9.19	IEU
5?	25.6	NC50,5 1/2FH	24.03	35.79	E.X.G.S	0.5	12.7	IEU
5 1/2?	21.9	5 1/2FH	19.81	29.51	E.X.G.S	0.361	9.17	IEU
5 1/2?	24.7	5 1/2FH	22.54	33.57	E.X.G.S	0.415	10.54	IEU
6 5/8?	25.2	6 5/8FH	22.19	33	E.X.G.S	0.33	8.387	IEU
6 5/8?	27.7	6 5/8FH	24.21	41	E.X.G.S	0.362	9.19	IEU

Chemical Composition (%)

Grade	Chemical composition	
	P	S
E75	<0.015	<0.003
X95	<0.015	<0.003
G105	<0.015	<0.003
S135	<0.015	<0.003
Tool joint	<0.015	<0.003

Mechanical Properties:

Pipe body	Grade	Yield strength				Tensile strength		Elongation	Hardness		Full size charpy impact test(J)	
		Min		Max		Min			HBW	HRC	Min	
		Psi	MPa	Psi	MPa	Psi	MPa				Average	Single
Pipe body	E75	75000	517	1E+05	724	1E+05	689	625000A0 .2/U0.9	-	-	80	65
	X95	95000	655	1E+05	862	1E+05	724		-	-	80	65
	G105	1E+05	724	1E+05	931	1E+05	793		-	-	80	65
	S135	1E+05	931	2E+05	1138	1E+05	1000		-	-	80	65
Weld zone	Tool joint	1E+05	827.4	-	-	1E+05	965.3	≥13%	≥285	-	80	65
	E75	75000	517	-	-	1E+05	689		-	?37	40	27
	X95	88000	609	-	-	1E+05	712		-	?37	40	27
	G105	95000	655	-	-	1E+05	724		-	?37	40	27
	S135	1E+05	724	-	-	1E+05			-	?37	40	27

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