

**Casing Performance Ratings - Metric**



Designation		O.D. (mm)	Nominal Weight T&C (kg/m)	Grade	Collapse Resistance (mPa)	Internal Yield Pressure at Minimum Yield, (mPa)				Joint Strength 1,000 (kg)			Body Yield 1,000 kg	Wall (mm)	I.D. (mm)	Drift Diameter (mm)	
Size (in.)	Weight (lb/ft.)					PE	STC	LTC	BTC	STC	LTC	BTC				API	SD
4 1/2	9.50	114.30	14.15	J-55	22.822	30.200	30.2			46			69	5.21	103.89	100.71	
4 1/2	9.50	114.30	14.15	K-55	22.822	30.200	30.2			51			69	5.21	103.89	100.71	
4 1/2	10.50	114.30	15.64	J-55	27.648	33.026	33.026		33.026	60	92	75	5.69	102.92	99.75		
4 1/2	10.50	114.30	15.64	K-55	27.648	33.036	33.026		33.026	66	113	75	5.69	102.92	99.75		
4 1/2	11.60	114.30	17.28	J-55	34.199	36.888	36.888	36.888	36.888	70	74	102	84	6.35	101.60	98.43	
4 1/2	11.60	114.30	17.28	K-55	34.199	36.888	36.888	36.888	36.888	77	82	126	84	6.35	101.60	98.43	
4 1/2	11.60	114.30	17.28	L-80	43.783	53.643		53.643	53.643		96	132	119	6.35	101.60	98.43	
4 1/2	11.60	114.30	17.28	N-80	43.783	53.643		53.643	53.643		101	138	119	6.35	101.60	98.43	
4 1/2	11.60	114.30	17.28	E-80*	43.783	53.643	53.643	53.643	53.643	96	99	135.2	119	6.35	101.60	98.43	
4 1/2	11.60	114.30	17.28	P-110	52.264	73.708		73.708	73.708		127	175	167	6.35	101.60	98.43	
4 1/2	13.50	114.30	20.11	L-80	58.883	62.193		62.193	62.193		117	152	139	7.37	99.57	96.39	
4 1/2	13.50	114.30	20.11	N-80	58.883	62.193		62.193	62.193		123	158	139	7.37	99.57	96.39	
4 1/2	13.50	114.30	20.11	P-110	73.639	85.567		85.567	85.567		153	201	192	7.37	99.57	96.39	
4 1/2	15.10	114.30	22.49	L-80	76.463	72.257		72.257	72.257		140	174	160	8.56	97.18	94.01	
4 1/2	15.10	114.30	22.49	P-110	98.943	99.426		99.426	92.807		184	231	220	8.56	97.18	94.01	
5	11.50	127.00	17.13	J-55	21.099	29.235	29.235			60			83	5.59	115.82	112.65	
5	11.50	127.00	17.13	K-55	21.099	29.235	29.235			67			83	5.59	115.82	112.65	
5	13.00	127.00	19.36	J-55	28.545	33.579	33.579	33.579	33.579	77	83	114	94	6.43	114.15	110.97	
5	13.00	127.00	19.36	K-55	28.545	33.579	33.579	33.579	33.579	84	91	140	94	6.43	114.15	110.97	
5	15.00	127.00	22.34	J-55	38.336	39.302	39.302	39.302	39.302	94	101	133	109	7.52	111.96	108.79	
5	15.00	127.00	22.34	K-55	38.336	39.302	39.302	39.302	39.302	104	112	163	109	7.52	111.96	108.79	
5	15.00	127.00	22.34	L-80	49.989	57.160		57.160	57.160		134	172	159	7.52	111.96	108.79	
5	15.00	127.00	22.34	N-80	49.989	57.160		57.160	57.160		141	180	159	7.52	111.96	108.79	
5	15.00	127.00	22.34	P-110	61.021	78.603		78.603	78.603		176	228	218	7.52	111.96	108.79	
5	18.00	127.00	26.81	L-80	72.398	69.915		69.915	68.329		171	207	192	9.19	108.61	105.44	
5	18.00	127.00	26.81	N-80	72.398	69.915		69.915	68.329		180	217	192	9.19	108.61	105.44	
5	18.00	127.00	26.81	P-110	92.876	96.116		96.116	93.910		225	275	263	9.19	108.61	105.44	
5	21.40	127.00	31.88	L-80	87.98	84.395		74.535	68.329		212	232	227	11.10	104.80	101.63	
5	21.40	127.00	31.88	N-80	87.98	84.395		74.535	68.329		222	244	227	11.10	104.80	101.63	
5	21.40	127.00	31.88	P-110	121.007	115.974		102.529	93.910		278	305	313	11.10	104.80	101.63	
5	23.20	127.00	34.56	L-80	95.358	92.255		74.535	68.329		233	232	247	12.14	102.72	99.54	
5	23.20	127.00	34.56	N-80	95.358	92.255		74.535	68.329		245	244	247	12.14	102.72	99.54	
5	23.20	127.00	34.56	P-110	131.143	126.868		101.908	93.951		306	305	339	12.14	102.72	99.54	
5	24.10	127.00	35.9	L-80	99.288	96.530		74.535	68.329		244	232	257	12.70	101.60	98.43	
5	24.10	127.00	35.9	N-80	99.288	96.530		74.535	68.329		253	244	257	12.70	101.60	98.43	
5	24.10	127.00	35.9	P-110	136.521	132.729		102.529	93.910		321	305	353	12.70	101.60	98.43	
5 1/2	14.00	139.70	20.85	J-55	21.512	29.442	29.442			78			101	6.20	127.30	124.13	
5 1/2	14.00	139.70	20.85	K-55	21.512	29.442	29.442			86			101	6.20	127.30	124.13	
5 1/2	15.50	139.70	23.09	J-55	27.856	33.165	33.165	33.165	33.165	92	99	136	113	6.99	125.73	122.56	
5 1/2	15.50	139.70	23.09	K-55	27.856	33.165	33.165	33.165	33.165	101	109	166	113	6.99	125.73	122.56	
5 1/2	15.50	139.70	23.09	E-80*	34.400	48.300	48.300	48.300	48.300	122	125	166	161	6.99	125.73	122.56	
5 1/2	17.00	139.70	25.32	J-55	33.854	36.681	36.681	36.681	36.681	104	112	149	124	7.72	124.26	121.08	
5 1/2	17.00	139.70	25.32	K-55	33.854	36.681	36.681	36.681	36.681	114	123	183	124	7.72	124.26	121.08	
5 1/2	17.00	139.70	25.32	L-80	43.370	53.367		53.367	53.367		153	194	180	7.72	124.26	121.08	
5 1/2	17.00	139.70	25.32	N-80	43.370	53.367		53.367	53.367		158	202	180	7.72	124.26	121.08	
5 1/2	17.00	139.70	25.32	E-80*	43.370	53.367	53.367	53.367	53.367	139	142	177	180	7.72	124.26	121.08	
5 1/2	17.00	139.70	25.32	P-110	51.575	73.363		73.363	73.363		202	258	248	7.72	124.26	121.08	
5 1/2	20.00	139.70	29.79	L-80	60.883	63.365		63.365	61.986		189	228	212	9.17	121.36	118.19	
5 1/2	20.00	139.70	29.79	N-80	60.883	63.365		63.365	61.986		194	238	212	9.17	121.36	118.19	
5 1/2	20.00	139.70	29.79	P-110	76.535	87.084		87.084	85.222		249	303	291	9.17	121.36	118.19	
5 1/2	23.00	139.70	34.26	L-80	76.948	72.811		68.123	61.986		222	250	241	10.54	118.62	115.44	
5 1/2	23.00	139.70	34.26	N-80	76.948	72.811		68.123	61.986		228	263	241	10.54	118.62	115.44	
5 1/2	23.00	139.70	34.26	P-110	100.253	100.184		93.634	85.222		292	329	331	10.54	118.62	115.44	
5 1/2	26.00	139.70	38.73	P-110	119.973	114.871		93.634	85.222		340	329	375	12.09	115.52	112.34	

\* Proprietary grade



Designation		O.D.	Nominal Weight	Grade	Collapse Resistance	Internal Yield Pressure at Minimum Yield, (mPa)				Joint Strength 1,000 (kg)			Body Yield 1,000 kg	Wall (mm)	I.D. (mm)	Drift Diameter (mm)				
Size (in.)	Weight (lb/ft.)	(mm)	(kg/m)			(mPa)	PE	STC	LTC	BTC	STC	LTC				BTC	(mm)	(mm)	API	SD
5 5/8	26.70	142.88	39.77	L-80	85.633	81.841		68.12	61.984		263	249	280	12.12	118.64		115.47			
5 5/8	26.70	142.88	39.77	P-110	117.767	112.526		93.634	85.222		291	329	385	12.12	118.64		115.47			
6 5/8	20.00	168.28	29.79	H-40	17.375	20.961	20.961			84			104	7.32	153.64	150.47				
6 5/8	20.00	168.28	29.79	J-55	20.478	28.821	28.821	28.821	28.821	111	121	170	143	7.32	153.64	150.47				
6 5/8	20.00	168.28	29.79	K-55	20.478	28.821	28.821	28.821	28.821	121	132	206	143	7.32	153.64	150.47				
6 5/8	24.00	168.28	35.75	J-55	31.441	35.233	35.233	35.233	35.233	143	154	206	173	8.94	150.39	147.22				
6 5/8	24.00	168.28	35.75	K-55	31.441	35.233	35.233	35.233	35.233	155	169	249	173	8.94	150.39	147.22				
6 5/8	24.00	168.28	35.75	L-80	39.715	51.299		51.299	51.299		215	269	252	8.94	150.39	147.22				
6 5/8	24.00	168.28	35.75	N-80	39.715	51.299		51.299	51.299		218	279	252	8.94	150.39	147.22				
6 5/8	24.00	168.28	35.75	P-110	46.403	70.536		70.536	70.536		291	357	346	8.94	150.39	147.22				
6 5/8	28.00	168.28	41.71	L-80	56.332	60.745		60.745	60.745		262	315	296	10.59	147.09	143.92				
6 5/8	28.00	168.28	41.71	N-80	56.332	60.745		60.745	60.745		266	327	296	10.59	147.09	143.92				
6 5/8	28.00	168.28	41.71	P-110	70.053	83.567		83.567	83.567		355	419	406	10.59	147.09	143.92				
6 5/8	32.00	168.28	47.66	L-80	71.156	69.226		69.226	67.709		302	355	333	12.07	144.15	140.97				
6 5/8	32.00	168.28	47.66	N-80	71.156	69.226		69.226	67.709		307	370	333	12.07	144.15	140.97				
6 5/8	32.00	168.28	47.66	P-110	91.152	95.151		95.151	93.083		410	472	458	12.07	144.15	140.97				
7	17.00	177.80	25.3	H-40	9.8	15.9	15.9			63			87	5.87	166.06	162.9				
7	17.00	177.80	25.3	J-55	11.2	21.9	21.9	21.9	21.900	83	92	142	120	5.87	166.06	162.9				
7	20.00	177.80	29.79	H-40	13.583	18.754	18.754			80			104	6.91	164.0	160.81				
7	20.00	177.80	29.79	J-55	15.652	25.787	25.787	25.787	25.787	106	117	169	143	6.91	164.0	160.81				
7	20.00	177.80	29.79	K-55	15.652	25.787	25.787	25.787	25.787	115	128	205	143	6.91	164.0	160.81				
7	23.00	177.80	34.26	J-55	22.547	30.062	30.062	30.062	30.062	129	142	196	166	8.05	161.70	158.52	158.75			
7	23.00	177.80	34.26	K-55	22.547	30.062	30.062	30.062	30.062	140	155	237	166	8.05	161.70	158.52	158.75			
7	23.00	177.80	34.26	L-80	26.408	43.714		43.714	43.714		197	257	242	8.05	161.70	158.52	158.75			
7	23.00	177.80	34.26	N-80	26.408	43.714		43.714	43.714		197	267	242	8.05	161.70	158.52	158.75			
7	23.00	177.80	34.26	E-80*	26.408	43.714	43.714	43.714	73.714	173	190	242	242	8.05	161.70	158.52	158.75			
7	26.00	177.80	38.73	J-55	29.786	34.337	34.337	34.337	34.337	152	167	222	188	9.19	159.4	156.24				
7	26.00	177.80	38.73	K-55	29.786	34.337	34.337	34.337	34.337	165	182	269	188	9.19	159.4	156.24				
7	26.00	177.80	38.73	L-80	37.302	49.920		49.920	49.920		232	291	274	9.19	159.4	156.24				
7	26.00	177.80	38.73	N-80	37.302	49.920		49.920	49.920		236	303	274	9.19	159.4	156.24				
7	26.00	177.80	38.73	E-80*	37.302	49.920	49.92	49.920	49.920	204	223	274	274	9.19	159.4	156.24				
7	26.00	177.80	38.73	P-110	42.956	68.605		68.605	68.605		315	387	377	9.19	159.4	156.24				
7	29.00	177.80	43.20	L-80	48.403	56.263		56.263	56.263		266	326	307	10.36	157.1	153.90	155.58			
7	29.00	177.80	43.20	N-80	48.403	56.263		56.263	56.263		271	339	307	10.36	157.1	153.90	155.58			
7	29.00	177.80	43.20	P-110	58.814	77.362		77.362	77.362		362	434	422	10.36	157.1	153.90	155.58			
7	32.00	177.80	47.66	L-80	59.366	62.469		62.469	58.332		300	359	338	11.51	154.8	151.61	152.40			
7	32.00	177.80	47.66	N-80	59.366	62.469		62.469	58.332		305	374	338	11.51	154.8	151.61	152.40			
7	32.00	177.80	47.66	P-110	74.328	85.912		85.912	80.258		407	478	465	11.51	154.8	151.61	152.40			
7	35.00	177.80	52.13	L-80	70.191	68.674		63.710	58.332		333	378	370	12.65	152.5	149.33				
7	35.00	177.80	52.13	N-80	70.191	68.674		63.710	58.332		339	398	370	12.65	152.5	149.33				
7	35.00	177.80	52.13	P-110	89.773	94.462		87.567	80.258		452	498	508	12.65	152.5	149.33				
7	38.00	177.80	56.6	L-80	78.534	74.466		63.710	58.332		364	378	398	13.72	150.4	147.19	149.23			
7	38.00	177.80	56.6	N-80	78.534	74.466		63.710	58.332		370	398	398	13.72	150.4	147.19	149.23			
7	38.00	177.80	56.60	P-110	104.39	102.391		87.567	80.258		493	498	547	13.72	150.4	147.19	149.23			
7	41.00	177.80	61.07	P-110	117.146	111.906		87.567	80.258		504	498	593	14.99	147.8	144.65				
7 5/8	24.00	193.70	35.75	H-40	13.997	18.961	18.961			96			125	7.62	178.4	175.26				
7 5/8	26.40	193.70	39.32	J-55	19.927	28.545	28.545	28.545	28.545	143	157	219	188	8.33	177.0	173.84				
7 5/8	26.40	193.70	39.32	K-55	19.927	28.545	28.545	28.545	28.545	155	171	264	188	8.33	177.0	173.84				
7 5/8	26.40	193.70	39.32	L-80	23.443	41.508		41.508	41.508		219	288	273	8.33	177.0	173.84				
7 5/8	26.40	193.70	39.32	N-80	23.443	41.508		41.508	41.508		222	299	273	8.33	177.0	173.84				
7 5/8	26.40	193.70	39.32	P-110	27.028	57.091		57.091	57.091		297	383	375	8.33	177.0	173.84				
7 5/8	29.70	193.70	44.24	L-80	33.027	47.507		47.507	47.507		257	327	310	9.53	174.6	171.45				
7 5/8	29.70	193.70	44.24	N-80	33.027	47.507		47.507	47.507		261	340	310	9.53	174.6	171.45				
7 5/8	29.70	193.70	44.24	P-110	36.888	65.296		65.296	65.296		349	436	427	9.53	174.6	171.45				
7 5/8	33.70	193.70	50.20	L-80	45.231	54.471		54.471	54.471		301	372	353	10.92	171.8	168.66				

\* Proprietary grade

## Casing Performance Ratings - Metric



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Size (in.)	Weight (lb/ft.)					PE	STC	LTC	BTC	STC	LTC	BTC				API	SD
7 5/8	33.70	193.70	50.20	N-80	45.231	54.471		54.471	54.471	306	387	353	10.92	171.8	168.66		
7 5/8	33.70	193.70	50.20	P-110	54.264	74.880		74.880	74.880	409	496	485	10.92	171.8	168.66		
7 5/8	39.00	193.70	58.09	L-80	60.814	63.296		63.296	63.296	357	429	406	12.70	168.3	165.10		
7 5/8	39.00	193.70	58.09	N-80	60.814	63.296		63.296	63.296	362	445	406	12.70	168.3	165.10		
7 5/8	39.00	193.70	58.09	P-110	76.397	87.015		87.015	87.015	484	571	559	12.70	168.3	165.10		
7 5/8	42.80	193.70	63.75	L-80	74.535	71.156		71.156	67.502	405	478	453	14.27	165.1	161.95		
7 5/8	42.80	193.70	63.75	N-80	74.535	71.156		71.156	67.502	411	496	453	14.27	165.1	161.95		
7 5/8	42.80	193.70	63.75	P-110	95.978	97.840		97.840	92.807	549	637	623	14.27	165.1	161.95		
7 5/8	45.30	193.70	67.47	L-80	79.361	75.293		72.329	67.502	430	503	477	15.11	163.4	160.27	161.92	
7 5/8	45.30	193.70	67.47	N-80	79.361	75.293		72.329	67.502	437	523	477	15.11	163.4	160.27	161.92	
7 5/8	45.30	193.70	67.47	P-110	106.39	103.563		99.495	92.807	583	671	656	15.11	163.4	160.27	161.92	
7 5/8	47.10	193.70	70.16	L-80	83.016	79.155		72.329	67.502	453	527	499	15.88	161.9	158.75		
7 5/8	47.10	193.70	70.16	N-80	83.016	79.155		72.329	67.502	460	547	499	15.88	161.9	158.75		
7 5/8	47.10	193.70	70.16	P-110	114.112	108.803		99.495	92.807	614	701	686	15.88	161.9	158.75		
7 3/4	46.10	196.90	68.67	L-80	78.189	74.121		72.329	67.502	382	454	486	15.11	166.6	163.45	165.10	
7 3/4	46.10	196.90	68.67	N-80	78.189	74.121		72.329	67.502	388	472	486	15.11	166.6	163.45	165.10	
7 3/4	46.10	196.90	68.67	P-110	103.356	101.908		99.495	92.807	518	606	668	15.11	166.6	163.45	165.10	
8 5/8	24.00	219.10	35.75	J-55	9.446	20.340	20.340			111		173	6.71	205.7	202.49		
8 5/8	24.00	219.10	35.75	K-55	9.446	20.340	20.340			119		173	6.71	205.7	202.49		
8 5/8	28.00	219.1	41.71	H-40	11.101	17.031	17.031			106		144	7.72	203.6	200.46		
8 5/8	32.00	219.10	47.66	H-40	15.169	19.720	19.720			127		166	8.94	201.2	198.02	200.02	
8 5/8	32.00	219.10	47.66	J-55	17.444	27.097	27.097	27.097	27.097	169	189	263	8.94	201.2	198.02	200.02	
8 5/8	32.00	219.10	47.66	K-55	17.444	27.097	27.097	27.097	27.097	183	205	313	8.94	201.2	198.02	200.02	
8 5/8	36.00	219.10	53.62	J-55	23.788	30.752	30.752	30.752	30.752	197	221	297	10.16	198.8	195.58		
8 5/8	36.00	219.10	53.62	K-55	23.788	30.752	30.752	30.752	30.752	212	239	354	10.16	198.8	195.58		
8 5/8	36.00	219.10	53.62	L-80	28.270	44.749		44.749	44.749	308	392	375	10.16	198.8	195.58		
8 5/8	36.00	219.10	53.62	N-80	28.270	44.749		44.749	44.749	312	406	375	10.16	198.8	195.58		
8 5/8	40.00	219.10	59.58	L-80	38.060	50.334		50.334	50.334	352	439	420	11.43	196.2	193.04	193.68	
8 5/8	40.00	219.10	59.58	N-80	38.060	50.334		50.334	50.334	358	454	420	11.43	196.2	193.04	193.68	
8 5/8	40.00	219.10	59.58	P-110	44.059	69.226		69.226	69.226	479	558	577	11.43	196.2	193.04	193.68	
8 5/8	44.00	219.10	65.54	L-80	47.920	55.987		55.987	55.987	397	484	464	12.70	193.7	190.50		
8 5/8	44.00	219.10	65.54	N-80	47.920	55.987		55.987	55.987	403	502	464	12.70	193.7	190.50		
8 5/8	44.00	219.10	65.54	P-110	58.056	76.948		76.948	76.948	538	646	637	12.70	193.7	190.50		
8 5/8	49.00	219.10	72.99	L-80	59.159	62.331		62.331	62.331	446	536	513	14.15	190.8	187.60		
8 5/8	49.00	219.10	72.99	N-80	59.159	62.331		62.331	62.331	453	555	513	14.15	190.8	187.60		
8 5/8	49.00	219.10	72.99	P-110	74.052	85.705		85.705	85.705	606	715	705	14.15	190.8	187.60		
9 5/8	32.30	244.50	48.11	H-40	9.446	15.652	15.652			115		166	7.92	228.6	224.66		
9 5/8	32.30	244.50	48.11	J-55	10.800	21.500	21.500	21.500	21.500	150	174	253	7.92	228.6	224.66		
9 5/8	36.00	244.50	53.62	H-40	11.859	17.651	17.651			133		186	8.94	226.6	222.63		
9 5/8	36.00	244.50	53.62	J-55	13.928	24.270	24.270	24.270	24.270	179	206	290	8.94	226.6	222.63		
9 5/8	36.00	244.50	53.62	K-55	13.928	24.270	24.270	24.270	24.270	192	222	343	8.94	226.6	222.63		
9 5/8	40.00	244.50	59.58	J-55	17.720	27.235	27.235	27.235	27.235	205	236	324	10.03	224.4	220.45	222.25	
9 5/8	40.00	244.50	59.58	K-55	17.720	27.235	27.235	27.235	27.235	221	255	383	10.03	224.4	220.45	222.25	
9 5/8	40.00	244.50	59.58	L-80	21.306	39.646		39.646	39.646	330	430	416	10.03	224.4	220.45	222.25	
9 5/8	40.00	244.50	59.58	N-80	21.306	39.646		39.646	39.646	335	444	416	10.03	224.4	220.45	222.25	
9 5/8	43.50	244.50	64.79	L-80	26.270	43.645		43.645	43.645	369	471	456	11.05	222.4	218.41	219.08	
9 5/8	43.50	244.50	64.79	N-80	26.270	43.645		43.645	43.645	375	488	456	11.05	222.4	218.41	219.08	
9 5/8	43.50	244.50	64.79	P-110	30.476	59.987		59.987	59.987	502	630	627	11.05	222.4	218.41	219.08	
9 5/8	47.00	244.50	70.01	L-80	32.82	47.369		47.369	47.369	405	509	493	11.99	220.5	216.53	219.08	
9 5/8	47.00	244.50	70.01	N-80	32.82	47.369		47.369	47.369	411	527	493	11.99	220.5	216.53	219.08	
9 5/8	47.00	244.50	70.01	P-110	36.544	65.089		65.089	65.089	551	681	678	11.99	220.5	216.53	219.08	
9 5/8	53.50	244.50	79.69	L-80	45.645	54.677		54.677	54.677	475	584	565	13.84	216.8	212.83	215.90	
9 5/8	53.50	244.50	79.69	N-80	45.645	54.677		54.677	54.677	482	603	565	13.84	216.8	212.83	215.90	
9 5/8	53.50	244.50	79.69	P-110	54.815	75.156		75.156	75.156	646	780	776	13.84	216.8	212.83	215.90	

\* Proprietary grade

Casing Performance Ratings - Metric



Designation		O.D. (mm)	Nominal Weight T&C (kg/m)	Grade	Collapse Resistance (mPa)	Internal Yield Pressure at Minimum Yield, (mPa)				Joint Strength 1,000 (kg)			Body Yield 1,000 kg	Wall (mm)	I.D. (mm)	Drift Diameter (mm)	
Size (in.)	Weight (lb/ft.)					PE	STC	LTC	BTC	STC	LTC	BTC				API	SD
9 5/8	58.40	244.50	86.99	L-80	54.402	59.642		59.642	59.642	523	634	613	15.11	214.2	210.29	212.72	
9 5/8	58.40	244.50	86.99	N-80	54.402	59.642		59.642	59.642	530	655	613	15.11	214.2	210.29	212.72	
9 5/8	58.40	244.50	86.99	P-110	67.295	82.051		82.051	82.051	710	847	843	15.11	214.2	210.29	212.72	
9 3/4	59.20	247.70	88.18	P-110	65.431	81.016		81.016	81.016	630	763	854	15.11	217.4		215.90	
9 7/8	62.80	250.80	93.54	P-110	70.881	83.981		83.981	83.705	587	719	907	15.88	219.1		215.90	
10 3/4	32.75	273.10	48.78	H-40	5.792	12.549	12.549			93		167	7.09	258.9	254.91		
10 3/4	40.50	273.10	60.32	H-40	9.584	15.721	15.721			143		207	8.89	255.3	251.31		
10 3/4	40.50	273.10	60.32	J-55	10.894	21.581	21.581		21.581	191	318	286	8.89	255.3	251.31		
10 3/4	40.50	273.10	60.32	K-55	10.894	21.581	21.581		21.581	204	372	286	8.89	255.3	251.31		
10 3/4	40.50	273.10	60.32	N-80	11.928	31.440	31.440		31.440	271	437	415	8.89	255.3	251.31		
10 3/4	45.50	273.10	67.77	J-55	14.411	24.684	24.684		24.684	224	361	325	10.16	252.7	248.77	250.82	
10 3/4	45.50	273.10	67.77	K-55	14.411	24.684	24.684		24.684	240	423	325	10.16	252.7	248.77	250.82	
10 3/4	45.50	273.10	67.77	N-80	17.030	35.922	35.922		35.922	318	498	472	10.16	252.7	250.82	250.82	
10 3/4	51.00	273.10	75.96	J-55	18.617	27.787	27.787		27.787	257	405	364	11.43	250.2	246.23		
10 3/4	51.00	273.10	75.96	K-55	18.617	27.787	27.787		27.787	275	474	364	11.43	250.2	246.23		
10 3/4	51.00	273.10	75.96	L-80	22.202	40.405	40.405		40.405	360	540	529	11.43	250.2	246.23		
10 3/4	51.00	273.10	75.96	N-80	22.202	40.405	40.405		40.405	365	558	529	11.43	250.2	246.23		
10 3/4	51.00	273.10	75.96	P-110	25.236	55.574	55.574		55.574	490	724	727	11.43	250.2	246.23		
10 3/4	55.50	273.10	82.67	L-80	27.718	44.473	44.473		44.473	401	592	579	12.57	247.9	243.94	244.48	
10 3/4	55.50	273.10	82.67	N-80	27.718	44.473	44.473		44.473	406	611	579	12.57	247.9	243.94	244.48	
10 3/4	55.50	273.10	82.67	P-110	31.786	61.090	61.090		61.090	546	792	796	12.57	247.9	243.94	244.48	
10 3/4	60.70	273.10	90.41	L-80	35.577	48.955	48.955		48.955	446	648	634	13.84	245.4	241.4		
10 3/4	60.70	273.10	90.41	N-80	35.577	48.955	48.955		48.955	452	668	634	13.84	245.4	241.40		
10 3/4	60.70	273.10	90.41	P-110	40.543	67.295	67.295		67.295	607	868	873	13.84	245.4	241.40		
10 3/4	65.70	273.10	97.86	L-80	43.437	53.434	53.436		53.436	491	704	689	15.11	242.8	238.86	241.40	
10 3/4	65.70	273.10	97.86	N-80	43.437	53.434	53.436		53.436	497	726	689	15.11	242.8	238.86	241.40	
10 3/4	65.70	273.10	97.86	P-110	51.713	73.432	73.432		73.432	668	943	948	15.11	242.8	238.86	241.40	
11 3/4	42.00	298.50	62.56	H-40	7.171	13.652	13.652		13.652	139	252	217	8.46	281.5	277.50	279.40	
11 3/4	42.00	298.50	62.56	J-55	7.700	18.800	18.800		18.800	183	319.8	292	8.46	281.5	277.50	279.40	
11 3/4	47.00	298.50	70.01	J-55	10.411	21.168	21.168		21.168	217	366	335	9.53	279.4	275.44		
11 3/4	47.00	298.50	70.01	K-55	10.411	21.168	21.168		21.168	231	424	335	9.53	279.4	275.44		
11 3/4	54.00	298.50	80.43	J-55	14.273	24.546	24.546		24.546	258	423	386	11.05	276.4	272.39		
11 3/4	54.00	298.50	80.43	K-55	14.273	24.546	24.546		24.546	275	490	386	11.05	276.4	272.39		
11 3/4	60.00	298.50	89.37	J-55	18.341	27.649	27.649		27.649	295	473	432	12.42	273.6	269.65	269.88	
11 3/4	60.00	298.50	89.37	K-55	18.341	27.649	27.649		27.649	315	548	432	12.42	273.6	269.65	269.88	
11 3/4	60.00	298.50	89.37	L-80	21.926	40.198	40.198		40.198	415	635	628	12.42	273.6	269.65	269.88	
11 3/4	60.00	298.50	89.37	N-80	21.926	40.198	40.198		40.198	419	654	628	12.42	273.6	269.65	269.88	
11 3/4	60.00	298.50	89.37	P-110	24.891	55.229	55.229		55.229	564	852	864	12.42	273.6	269.65	269.88	
11 3/4	65.00	298.50	96.82	L-80	26.683	43.851	43.851		43.851	457	690	683	13.56	271.3	269.88	269.88	
11 3/4	65.00	298.50	96.82	N-80	26.683	43.851	43.851		43.851	462	710	683	13.56	271.3	269.88	269.88	
11 3/4	65.00	298.50	96.82	P-110	30.889	60.331	60.331		60.331	622	927	940	13.56	271.3	269.65	269.88	
11 3/4	71.00	298.50	105.75	P-110	37.714	65.709	65.709		65.709	684	1006	1020	14.78	268.9	264.92		
11 7/8	71.80	301.60	106.95	P-110	36.473	65.020	65.020		65.02	603	903	1031	14.78	272.1		269.88	
13 3/8	48	339.70	71.50	H-40	5.102	11.928	11.928		11.928	146	276	246	8.38	323.0	319.00		
13 3/8	54.5	339.70	81.18	J-55	7.791	18.823	18.823		18.823	233	413	387	9.65	320.4	316.46		
13 3/8	54.5	339.70	81.18	K-55	7.791	18.823	18.823		18.823	248	471	387	9.65	320.4	316.46		
13 3/8	61	339.70	90.86	J-55	10.618	21.306	21.306		21.306	270	465	437	10.92	317.9	313.92		
13 3/8	61	339.70	90.86	K-55	10.618	21.306	21.306		21.306	287	531	437	10.92	317.9	313.92		
13 3/8	68	339.70	101.29	J-55	13.445	23.788	23.788		23.788	306	518	485	12.19	315.3	311.38		
13 3/8	68	339.70	101.29	K-55	13.445	23.788	23.788		23.788	326	590	485	12.19	315.3	311.38		
13 3/8	68	339.70	101.29	L-80	15.583	34.613	34.613		34.613	432	701	706	12.19	315.3	311.38		

\* Proprietary grade

## Casing Performance Ratings - Metric



Designation		O.D. (mm)	Nominal Weight T&C (kg/m)	Grade	Collapse Resistance (mPa)	Internal Yield Pressure at Minimum Yield, (mPa)				Joint Strength 1,000 (kg)			Body Yield 1,000 kg	Wall (mm)	I.D. (mm)	Drift Diameter (mm)	
Size (in.)	Weight (lb/ft.)					PE	STC	LTC	BTC	STC	LTC	BTC				API	SD
13 3/8	68	339.70	101.29	N-80	15.583	34.613	34.613		34.613	437		720	706	12.19	315.3	311.38	
13 3/8	68	339.70	101.29	P-110	16.134	47.644	47.644		47.644	589		944	971	12.19	315.3	311.38	
13 3/8	72	339.70	107.24	L-80	18.410	37.095	37.095		37.095	467		749	754	13.06	313.6	309.65	
13 3/8	72	339.70	107.24	N-80	18.410	37.095	37.095		37.095	472		769	754	13.06	313.6	309.65	
13 3/8	72	339.70	107.24	P-110	19.927	51.023	51.023		51.023	637		1008	1037	13.06	313.6	309.65	
13 3/8	80.7	339.70	120.20	P-110	27.579	57.571			57.571			1131	1163	14.73	310.3	306.30	
13 3/8	86.00	339.70	128.10	P-110	32.957	62.055			61.917			1215	1250	15.88	308.0	304.01	
16	65.00	406.40	96.82	H-40	4.344	11.308	11.308		11.308	199		355	334	9.53	387.4	382.57	
16	75.00	406.40	111.71	J-55	7.033	18.134	18.134		18.134	322		545	535	11.13	384.1	379.37	
16	75.00	406.40	111.71	K-55	7.033	18.134	18.134		18.134	341		604	535	11.13	384.1	379.37	
16	84.00	406.40	125.12	J-55	9.722	20.547	20.547		20.547	371		613	602	12.57	381.3	376.48	
16	84.00	406.40	125.12	K-55	9.722	20.547	20.547		20.547	393		681	602	12.57	381.3	376.48	
16	84.00	406.40	125.12	N-80	10.205	29.855	29.855		29.855	530		862	876	12.57	381.3	376.48	
16	84.00	406.40	125.12	P-110	10.205	41.094	41.094		41.094	715		1143	1204	12.57	381.3	376.48	
16	95.00	406.40	141.50	N-80	15.031	34.130			34.130			981	997	14.38	377.6	374.65	
16	95.00	406.40	141.50	P-110	15.376	46.955			46.955			1301	1371	14.38	377.6	374.65	
16	97.00	406.40	144.36	N-80	15.651	34.681			34.681			995	1012	14.61	377.2	374.65	
16	97.00	406.40	144.36	P-110	16.134	47.712			47.712			1320	1391	14.61	377.2	374.65	
16	109.00	406.40	162.36	J-55	17.651	27.235	27.235		27.235	507		804	790	16.66	373.1	368.30	
16	109.00	406.40	162.36	K-55	17.651	27.235	27.235		27.235	536		892	790	16.66	373.1	368.30	
16	109.00	406.40	162.36	N-80	21.236	39.576	39.576		39.576	723		1129	790	16.66	373.1	368.30	
16	118.00	406.40	175.61	J-55	21.856	29.647	29.647		29.647	555		873	857	18.16	370.1	365.30	
16	118.00	406.40	175.61	K-55	21.856	29.647	29.647		29.647	588		967	857	18.16	370.1	365.30	
16	118.00	406.40	175.61	N-80	25.373	43.161	43.161		43.161	790		1226	1246	18.16	370.1	365.30	
18 5/8	87.50	473.10	130.33	H-40	4.344	11.239	11.239		11.239	254		451	451	11.05	451.0	446.20	
18 5/8	87.50	473.10	130.33	J-55	4.344	15.514	15.514		15.514	342		603	621	11.05	451.0	446.20	
18 5/8	87.50	473.10	130.33	K-55	4.344	15.514	15.514		15.514	360		648	621	11.05	451.0	446.20	
18 5/8	87.50	473.10	130.33	N-80	4.344	22.546	22.546		22.546	489		856	903	11.05	451.0	446.20	
18 5/8	94.50	473.10	140.63	H-40	5.378	12.135	12.135		12.135	276		484	484	11.89	449.3	444.53	
18 5/8	94.50	473.10	140.63	J-55	5.378	16.685	16.685		16.685	372		647	666	11.89	449.3	444.53	
18 5/8	94.50	473.10	140.63	K-55	5.378	16.685	16.685		16.685	392		695	666	11.89	449.3	444.53	
18 5/8	94.50	473.10	140.63	N-80	5.378	24.270	24.270		24.270	533		919	969	11.89	449.3	444.53	
18 5/8	106.00	473.10	157.75	H-40	7.860	13.790	13.790		13.790	319		547	548	13.49	446.1	441.33	
18 5/8	106.00	473.10	157.75	J-55	7.860	18.892	18.892		18.892	430		732	753	13.49	446.1	441.33	
18 5/8	106.00	473.10	157.75	K-55	7.860	18.892	18.892		18.892	453		786	753	13.49	446.1	441.33	
18 5/8	106.00	473.10	157.75	N-80	7.929	27.510	27.510		27.510	615		1040	1096	13.49	446.1	441.33	
18 5/8	117.50	473.10	174.86	H-40	10.342	15.375	15.375		15.375	361		609	610	15.06	443.0	438.18	
18 5/8	117.50	473.10	174.86	J-55	10.411	21.098	21.098		21.098	486		814	839	15.06	443.0	438.18	
18 5/8	117.50	473.10	174.86	K-55	10.411	21.098	21.098		21.098	512		875	839	15.06	443.0	438.18	
18 5/8	117.50	473.10	174.86	N-80	11.170	30.751	30.751		30.751	696		1157	1220	15.06	443.0	438.18	
20	94.00	508.00	140.01	H-40	3.585	10.549	10.549		10.549	264		473	489	11.13	485.7	480.97	
20	94.00	508.00	140.01	J-55	3.585	14.548	14.548	14.548	14.548	355	957	637	672	11.13	485.7	480.97	
20	94.00	508.00	140.01	K-55	3.585	14.548	14.548	14.548	14.548	374	957	671	672	11.13	485.7	480.97	
20	106.50	508.00	158.63	J-55	5.309	16.617	16.617	16.617	16.617	415	1093	724	765	12.70	482.6	477.82	
20	106.50	508.00	158.63	K-55	5.309	16.617	16.617	16.617	16.617	436	1093	764	765	12.70	482.6	477.82	
20	106.50	508.00	158.63	N-80	5.309	24.132	24.132	24.132	24.132	593	1588	1035	1111	12.70	482.6	477.82	
20	133.00	508.00	198.10	J-55	10.343	21.099	21.099	21.099	21.099	541	1388	913	965	16.13	475.7	470.98	
20	133.00	508.00	198.10	K-55	10.343	21.099	21.099	21.099	21.099	569	1388	964	965	16.13	475.7	470.98	
20	133.00	508.00	198.10	L-80	10.343	30.682	30.682	30.682	30.682	767	2018	1292	1402	16.13	475.7	470.98	
20	133.00	508.00	198.10	N-80	10.343	30.682	30.682	30.682	30.682	774	2018	1305	1402	16.13	475.7	470.98	
20	169.00	508.00	251.73	K-55	17.238	26.959	22.271		23.305	636		1220	1221	20.62	466.8	461.99	
20	169.00	508.00	251.73	L-80	20.822	39.162	32.336	34.405	33.922	999	2263	1637	1776	20.62	466.8	461.99	
20	169.00	508.00	251.73	N-80	20.822	39.162	32.336	34.405	33.922	1007	2263	1653	1776	20.62	466.8	461.99	