API 5CT-89 CASING AND TUBING

1. Chemical composition

Grade	Mfg. Process	Chemical Composition (%)								
		C	Si	Mn	P	S	Ni	Cr	Mo	Others
H-40	S, E	-	-	-	0.030Max	0.030Max	-	-	-	-
J-55	S, E	-	-	-	0.030Max	0.030Max	-	-	-	-
K-55	S, E	-	-	-	0.030Max	0.030Max	-	-	-	-
N-80	S, E	-	-	-	0.030Max	0.030Max	-	-	-	-
C-75-1	S, E	0.50Max	0.45Max	1.90Max	0.030Max	0.030Max	0.50Max	0.50Max	0.15~0.40	Cu 0.50Max
C-75-2	S, E	0.43Max	0.45Max	1.90Max	0.030Max	0.030Max	-	-	-	-
C-75-3	S, E	0.38Max	-	0.75~1.00	0.030Max	0.030Max	-	0.80~1.10	0.15~0.25	-
C-75-9Cr	S	0.15Max	1.00Max	0.30~0.60	0.20Max	0.010Max	0.50Max	8.00~10.0	0.90~1.10	Cu 0.25Max
C-75-13Cr	S	0.15~0.22	1.00Max	0.25~1.00	0.20Max	0.010Max	0.50Max	12.0~14.0	-	Cu 0.25Max
L-80-1	S, E	0.43Max	0.45Max	1.90Max	0.030Max	0.030Max	0.25Max	-	-	Cu 0.35Max
L-80-9Cr	S	0.15Max	1.00Max	0.30~0.60	0.20Max	0.010Max	0.50Max	8.00~10.00	0.90~1.10	Cu 0.25Max
L-80-13Cr	S	0.15~0.22	1.00Max	0.25~1.00	0.20Max	0.010Max	0.50Max	12.0~14.0	-	Cu 0.25Max
C-90-1	S	0.35Max	-	1.00Max	0.20Max	0.010Max	0.99Max	1.20Max	0.75Max	-
C-90-2	S	0.50Max	-	1.90Max	0.030Max	0.010Max	0.99Max	No Limit	No Limit	-
C-95	SpE	0.45Max	0.45Max	1.90Max	0.030Max	0.030Max	-	-	-	-
T-95-1	S	0.35Max	-	1.20Max	0.20Max	0.010Max	0.99Max	0.40~1.50	0.25~0.85	-
T-95-2	S	0.50Max	-	1.90Max	0.030Max	0.010Max	0.99Max	-	-	-
P-105	S	-	-	-	0.030Max	0.030Max	-	-	-	-
P-110	S	-	-	-	0.030Max	0.030Max	-	-	-	-
Q-125-1	S, E	0.35Max	-	1.00Max	0.20Max	0.010Max	0.99Max	1.20Max	0.75Max	-
Q-125-2	S, E	0.35Max	-	1.00Max	0.20Max	0.20Max	0.99Max	No Limit	No Limit	-
Q-125-3	S, E	0.50Max	-	1.90Max	0.20Max	0.20Max	0.99Max	No Limit	No Limit	-
Q-125-4	S, E	0.50Max	-	1.90Max	0.030Max	0.20Max	0.99Max	No Limit	No Limit	-

2. Mechanical Properties

Grade	Tensile Test MPa or N/mm^2	
	Min Yield point	Tensile Strength
H-40	276~552	414Min
J-55	379~552	517Min
K-55	379~552	655Min
N-80	552~758	689Min
C-75-1	517~620	655Min
C-75-2	517~620	655Min
C-75-3	517~620	655Min
C-75-9Cr	517~620	655Min
C-75-13Cr	517~620	655Min
L-80-1	552~655	655Min
L-80-9Cr	552~655	655Min
L-80-13Cr	552~655	655Min
C-90-1	620~724	690Min
C-90-2	620~724	690Min
C-95	655~758	724Min
T-95-1	655~758	724Min
T-95-2	655~758	724Min
P-105	724~931	827Min
P-110	758~965	862Min
Q-125-1	860~1035	930Min
Q-125-2	860~1035	930Min
Q-125-3	860~1035	930Min
Q-125-4	860~1035	930Min

OCTG API Plain End Casing

Standards: ISO 11960 / API 5CT / 5B

Used In: oil and gas exploitation

Dimensions: ACCORDING TO THE TABLE

Size Designation	Weight Designation	OD Diameter		Wall Thickness		Type of End Finish for Various Frades							Plain End Weight	
		mm	in	mm	in	H40	J55	K55	M65	N80	L80	P110	Kg/m	lb/ft
4 1/2	9.50	114.3	4.500	5.210	0.224	P	P	P	P	-	-	-	14.02	9.41
	10.50		4.500	5.690	0.205	-	P	P	P	-	-	-	15.24	10.24
5	11.50	127.00	5.000	5.590	0.220	-	P	P	P	-	-	-	16.74	11.24
	13.00			6.430	0.253	-	P	P	P	-	-	-	19.12	12.84
	15.00			7.520	0.296	-	P	P	P	P	P	P	22.16	14.88
	18.00			9.190	0.362	-	-	-	P	P	P	P	26.70	17.95
5 1/2	14.00	139.70	5.5000	6.200	0.244	P	P	P	P	-	-	-	20.41	13.71
	15.50			6.980	0.275	-	P	P	P	-	-	-	22.85	15.36
	17.00			7.720	0.304	-	P	P	P	P	P	P	25.13	16.89
	20.00			9.170	0.361	-	-	-	P	P	P	P	29.52	19.83
	23.00			10.540	0.415	-	-		P	P	P	P	33.57	22.56
6 5/8	20.00	168.28	6.625	7.320	0.288	-	P	P	P	P	P	-	29.06	19.51
	24.00			8.940	0.352	-	P	P	P	P	P	P	35.13	23.60
	28.00			10.590	0.417	-	-	-	P	P	P	P	41.18	27.67
	32.00			12.060	0.475	-	-	-	P	P	P	P	46.46	31.23
7	23.00	177.8	7.000	8.050	0.317	-	P	P	P	P	P	-	33.70	22.65
	26.00			9.191	0.362	-	P	P	P	P	P	P	38.21	25.69
	29.00			10.360	0.408	-	-		P	P	P	P	42.78	28.75
	32.00			11.510	0.453	-	-		P	P	P	P	47.20	31.70
	35.00			12.650	0.498	-	-	-		P	P	P	51.52	34.61
	38.00			13.720	0.540	-	-	-	-	P	P	P	55.52	37.29
7 5/8	26.40	193.68	7.625	8.330	0.300	-	P	P	P	P	P	-	38.08	25.59
	29.70			9.520	0.328	-	-		P	P	P	P	43.24	29.06

	33.70			10.920	0.375	-	-	-	P	P	P	P	49.22	33.07
	39.00			12.700	0.430	-	-	-	-	P	P	P	56.68	38.08
8 5/8	24.00	219.80	8.625	6.710	0.264	-	P	P	P	-	-	-	35.14	23.60
	28.00			7.720	0.304	P	-	-	P	-	-	-	40.24	27.40
	32.00			8.940	0.352	P	P	P	P	-	-	-	46.33	31.13
	36.00			10.160	0.400	-	P	P	P	P	P	-	52.35	35.17
	40.00			11.430	0.450	-	-	-	P	P	P	P	58.53	39.33
	44.00			12.700	0.500	-	-	-	-	P	P	P	64.64	43.43
	49.00			14.150	0.557	-	-	-	-	P	P	P	71.51	48.04
9 5/8	36.00	244.48	9.625	8.940	0.352	P	P	P	P	-	-	-	51.93	34.89
	40.00			10.030	0.395	-	P	P	P	P	P	-	57.99	38.97
	43.50			11.050	.0435	-	-	-	P	P	P	P	63.61	42.73
	47.00			11.990	0.472	-	-	-	P	P	P	P	68.75	46.18
	53.50			13.840	0.545	-	-	-	-	P	P	P	78.72	52.90
	58.40			15.110	0.595	-	-	-	-	P	P	P	85.47	57.44
10 3/4	32.75	273.05	10.750	7.090	0.279	P	-	-	-	-	-	-	46.50	31.23
	40.50			8.890	0.350	P	P	P	P	-	-	-	57.91	38.91
	45.50			10.160	0.400	-	P	P	P	-	-	-	65.87	44.26
	51.00			11.430	0.450	-	P	P	P	P	P	P	73.75	49.55
	55.50			12.570	0.495	-	-	-	P	P	P	P	80.75	54.26
	60.70			13.840	0.545	-	-	-	-	-	-	P	88.47	59.45
	65.70			15.110	0.595	-	-	-	-	-	P	P	96.12	64.59
	47.00			9.530	0.375	-	P	P	P	-	-	-	69.94	45.60
11 3/4	54.00	298.45	11.750	11.050	0.435	-	P	P	P	-	-	-	78.32	52.62
	60.00			12.420	0.489	-	P	P	P	P	P	P	87.61	58.87
	65.00			13.560	0.534	-	-	-	-	P	P	P	95.27	64.03
13 3/8	48.00	339.72	13.375	8.380	0.330	P	-	-	-	-	-	-	68.48	46.02
	54.50			9.560	0.380	-	P	P	P	-	-	-	78.55	52.79
	61.00			10.920	0.430	-	P	P	P	-	-	-	88.55	59.50
	68.00			12.190	0.480	-	P	P	P	P	P	P	98.46	66.17
	72.00			13.060	0.514	-	-	-	-	P	P	P	105.21	70.67