



**LIBERTY**

**Liberty Tubular Products**

**Ostrava a.s.**

**OIL COUNTRY TUBULAR GOODS  
(OCTG)**



# OIL COUNTRY TUBULAR GOODS (OCTG)

## Grade Range

Casing and Tubing are supplied according to API Spec 5CT, Drill Pipe body according to API Spec 5DP and Line Pipe according to API Spec 5L or ISO 3183.

**Note:** Line pipe acc to API 5L and ISO 3183 are supplied in sizes acc to ASME B36.10M, or EN 10220

Type of pipe	API Specification	Application	Grade
Line Pipe (seamless) <sup>7</sup>	API Spec 5L and/or ISO 3183	Standard	PSL 1: A, B, X42, X46, X52, X56, X60, X65, X70 PSL 2 (+R) : BR, X42R, PSL 2 (+N) : BN, X42N, X46N, X52N, X56N, X60N, PSL 2 (+Q) : BQ, X42Q, X46Q, X52Q, X56Q, X60Q, X65Q, X70Q
		Sour service (Annex H)	PSL 2 (+N) : BNS, X42NS, X46NS, X52NS, PSL 2 (+Q) : BQS, X42QS, X46QS, X52QS, X56QS, X60QS, X65QS, X70QS
		Offshore service (Annex J)	PSL 2 (+N) : BNO, X42NO, X46NO, X52NO, PSL 2 (+Q) : BQO, X42QO, X46QO, X52QO, X56QO, X60QO, X65QO, X70QO
	ISO 3183	Onshore service (Annex M)	PSL 2 (+N) : BNE, X42NE, X52NE, PSL 2 (+Q) : X52QE, X60QE, X65QE, X70QE
Casing	API Spec 5CT		PSL 1: H40, J55, K55, N80-1 <sup>1,2</sup> , N80-Q <sup>2</sup> , R95, L80-1, T95 <sup>1</sup> , P110 <sup>5</sup> , Q125 <sup>1</sup> PSL 2 <sup>1</sup> : J55, K55, N80-Q, R95, L80-1, P110, Q125 PSL 3 <sup>1</sup> : J55, K55, N80-Q, R95, L80-1, P110, Q125 High Collapse <sup>4</sup> K55 HC, L80 HC, N80-Q HC, R95 HC, P110 HC, Q125 HC
Tubing <sup>3</sup>	API Spec 5CT		PSL 1: H40, J55, N80-1 <sup>2</sup> , N80-Q <sup>2</sup> , R95 <sup>1</sup> , L80-1, P110 <sup>1,5</sup>
Drill Pipe <sup>6</sup>	API Spec 5DP		E, G

<sup>1</sup> Supply in these grades shall be pre-negotiated

<sup>2</sup> Supplied by producer option or by agreement with customer

<sup>3</sup> Only plain ends and non upset

<sup>4</sup> By agreement it is possible to guarantee stability against outside press collapsing incl. making of relevant test for High Collapse, refer corresponding schedule.

<sup>5</sup> Casing and Tubing pipes in grade P110 with WT < 8,8 mm only with SR16 and by agreement with customers.

<sup>6</sup> Supply only without welded on tool joint

<sup>7</sup> Line pipe are standardly supplied in sizes acc to ASME B36.10M or EN 10220

Line Pipe with spiral weld – see next chapter “Spiral-weld pipes”



## Dimensional range and weight according to ASME B36.10M

Specified diameter	Size NPS (ASTM)	Outside diameter		Wall thickness		Weight category	Schedule No. (ASTM)	Weight of pipe with plain ends	
		in	mm	in	mm			lb/ft	kg/m
1,2	1,2	0,84	21,3	0,109	2,77	STD	40	0,85	1,27
				0,147	3,73	XS	80	1,09	1,62
3,4	3,4	1,05	26,7	0,113	2,87	STD	40	1,13	1,69
				0,154	3,91	XS	80	1,48	2,2
1	1	1,315	33,4	0,133	3,38	STD	40	1,68	2,5
				0,179	4,55	XS	80	2,17	3,24
1 1/4	1 1/4	1,66	42,2	0,14	3,56	STD	40	2,27	3,39
				0,191	4,85	XS	80	3	4,47
1 1/2	1 1/2	1,9	48,3	0,145	3,68	STD	40	2,72	4,05
				0,2	5,08	XS	80	3,63	5,41
2 3/8	2	2,375	60,3	0,125	3,18	...	30	3,01	4,48
				0,141	3,58	...	...	3,37	5,01
				0,154	3,91	STD	40	3,66	5,44
				0,172	4,37	...	...	4,05	6,03
				0,188	4,78	...	...	4,4	6,54
				0,218	5,54	XS	80	5,03	7,48
				0,25	6,35	...	...	5,68	8,45
				0,281	7,14	...	...	6,29	9,36
				0,344	8,74	...	160	7,47	11,11
				0,375	9,53	...	...	8,12	12,02
2 7/8	2 1/2	2,875	73	0,125	3,18	...	...	3,67	5,48
				0,141	3,58	...	...	4,12	6,13
				0,156	3,96	...	...	4,53	6,74
				0,172	4,37	...	...	4,97	7,4
				0,188	4,78	...	30	5,4	8,04
				0,203	5,16	STD	40	5,8	8,63
				0,216	5,49	...	...	6,14	9,14
				0,25	6,35	...	...	7,02	10,44
				0,276	7,01	XS	80	7,67	11,41
				0,375	9,53	...	160	10,02	14,92
3 1/2	3	3,5	88,9	0,125	3,18	...	...	4,51	6,72
				0,141	3,58	...	...	5,06	7,53
				0,156	3,96	...	...	5,58	8,3
				0,172	4,37	...	...	6,12	9,11
				0,188	4,78	...	30	6,66	9,92
				0,216	5,49	STD	40	7,58	11,29
				0,25	6,35	...	...	8,69	12,93
				0,281	7,14	...	...	9,67	14,4
				0,3	7,62	XS	80	10,26	15,27
				0,438	11,13	...	160	14,34	21,35
4	3 1/2	4	101,6	0,141	3,58	...	...	5,82	8,65
				0,156	3,96	...	...	6,41	9,54
				0,172	4,37	...	...	7,04	10,48
				0,188	4,78	...	30	7,66	11,41
				0,226	5,74	STD	40	9,12	13,57
				0,25	6,35	...	...	10,02	14,92
				0,281	7,14	...	...	11,17	16,63
				0,318	8,08	XS	80	12,52	18,64
4 1/2	4	4,5	114,3	0,141	3,58	...	...	6,57	9,78
				0,156	3,96	...	...	7,24	10,78
				0,172	4,37	...	...	7,96	11,85
				0,188	4,78	...	30	8,67	12,91
				0,203	5,16	...	...	9,32	13,89
				0,219	5,56	...	...	10,02	14,91
				0,237	6,02	STD	40	10,8	16,08
				0,25	6,35	...	...	11,36	16,91
				0,281	7,14	...	...	12,67	18,87
				0,312	7,92	...	...	13,97	20,78
				0,337	8,56	XS	80	15	22,32
				0,438	11,13	...	120	19,02	28,32
0,531	13,49	...	160	22,51	33,54				

## Dimensional range and weight according to ASME B36.10M

Specified diameter	Size NPS (ASTM)	Outside diameter		Wall thickness		Weight category	Schedule No. (ASTM)	Weight of pipe with plain ends	
		in	mm	in	mm			lb/ft	kg/m
5 9/16	5	5,563	141,3	0,156	3,96	...	...	9,02	13,41
				0,188	4,78	...	...	10,8	16,09
				0,219	5,56	...	...	12,51	18,61
				0,258	6,55	STD	40	14,63	21,77
				0,281	7,14	...	...	15,87	23,62
				0,312	7,92	...	...	17,51	26,05
				0,344	8,74	...	...	19,19	28,57
				0,375	9,53	XS	80	20,8	30,97
				0,5	12,7	...	120	27,06	40,28
				0,562	14,27	...	...	30,06	44,02
6 5/8	6	6,625	168,3	0,188	4,78	...	...	12,94	19,28
				0,203	5,16	...	...	13,94	20,76
				0,219	5,56	...	...	15	22,31
				0,25	6,35	...	...	17,04	25,36
				0,28	7,11	STD	40	18,99	28,26
				0,312	7,92	...	...	21,06	31,33
				0,344	8,74	...	...	23,1	34,39
				0,375	9,53	...	...	25,05	37,31
				0,432	10,97	XS	80	28,6	42,56
				0,5	12,7	...	...	32,74	48,73
8 5/8	8	8,625	219,1	0,25	6,35	...	20	22,38	33,32
				0,277	7,04	...	30	24,72	36,82
				0,312	7,92	...	...	27,73	41,25
				0,322	8,18	STD	40	28,58	42,55
				0,344	8,74	...	...	30,45	45,34
				0,375	9,53	...	...	33,07	49,25
				0,406	10,31	...	60	35,67	53,09
				0,438	11,13	...	...	38,33	57,08
				0,5	12,7	XS	80	43,43	64,64
				0,562	14,27	...	...	48,44	72,08
10 3/4	10	10,75	273	0,25	6,35	...	20	28,06	41,76
				0,279	7,09	...	...	31,23	46,49
				0,307	7,8	...	30	34,27	51,01
				0,344	8,74	...	...	38,27	56,96
				0,365	9,27	STD	40	40,52	60,29
				0,438	11,13	...	...	48,28	71,88
				0,5	12,7	XS	60	54,79	81,53
				0,562	14,27	...	...	61,21	91,05
				0,594	15,09	...	80	64,49	95,98
				0,625	15,88	...	...	67,65	100,69
0,719	18,26	...	100	77,1	114,71				





## Casing pipe acc. to API 5CT - Dimensional range, weight, grade

Nominal outside diameter		Nominal wall thickness		Labels	Weight with thread and coupling		Length	Type of thread / Supplied with pipe end P = plain end; S = SC; L = LC; B = BC (Buttress) <sup>2</sup> ; G = gass tightness <sup>1</sup>												
					lb/ft	kg/m		Range	H40	J55 K55	L80	R95	N80	P110 <sup>2</sup>	Q125					
inch	mm	inch	mm																	
4 1/2	114,30	0,205	5,21	9,50	9,70	14,38	R2, R3	PS	PS											
		0,224	5,69	10,50	10,60	15,73	R2, R3		PSB											
		0,250	6,35	11,60	11,70	17,38	R2, R3		PSLBG	PLBG	PLB	PLBG	PLBG							
		0,290	7,37	13,50	13,30	19,87	R2, R3			PLBG	PLB	PLBG	PLBG							
		0,337	8,56	15,10	15,30	22,69	R2, R3							PLBG						
5	127,00	0,220	5,59	11,50	11,30	17,19	R2, R3		PS											
		0,253	6,43	13,00	13,20	19,69	R2, R3		PSLBG											
		0,296	7,52	15,00	15,30	22,69	R2, R3		PSLBG	PLBG	PLB	PLBG	PLBG							
		0,362	9,19	18,00	18,30	27,19	R2, R3			PLBG	PLB	PLBG	PLBG							
5 1/2	139,70	0,244	6,20	14,00	14,00	20,91	R2, R3	PS	PS											
		0,275	6,98	15,50	15,80	23,48	R2, R3		PSLBG											
		0,304	7,72	17,00	17,30	25,72	R2, R3		PSLBG	PLBG	PLB	PLBG	PLBG							
		0,361	9,17	20,00	20,20	30,05	R2, R3			PLBG	PLB	PLBG	PLBG							
		0,415	10,54	23,00	22,90	34,05	R2, R3			PLBG	PLB	PLBG	PLBG							
6 5/8	168,28	0,288	7,32	20,00	20,00	29,76	R2, R3	PS	PSLBG											
		0,352	8,94	24,00	24,00	35,72	R2, R3		PSLBG	PLBG	PLB	PLBG	PLBG							
		0,417	10,59	28,00	28,00	41,67	R2, R3			PLBG	PLB	PLBG	PLBG							
		0,475	12,06	32,00	32,00	47,62	R2, R3			PLBG	PLB	PLBG	PLBG					PLBG		
7	177,80	0,272	6,91	20,00	20,10	29,91	R2, R3	PS	PS											
		0,317	8,05	23,00	23,30	34,67	R2, R3		PSLBG	PLBG	PLB	PLBG								
		0,362	9,19	26,00	26,30	39,14	R2, R3		PSLBG	PLBG	PLB	PLBG	PLBG							
		0,408	10,36	29,00	29,30	43,60	R2, R3			PLBG	PLB	PLBG	PLBG							
		0,453	11,51	32,00	32,20	47,92	R2, R3			PLBG	PLB	PLBG	PLBG							
7 5/8	193,68	0,300	7,62	24,00	24,00	35,72	R2, R3	PS												
		0,328	8,33	26,40	26,40	39,29	R2, R3		PSLBG	PLBG	PLB	PLBG								
		0,375	9,52	29,70	29,70	44,20	R2, R3			PLBG	PLB	PLBG	PLBG							
		0,430	10,92	33,70	33,70	50,15	R2, R3			PLBG	PLB	PLBG	PLBG							
		0,500	12,70	39,00	39,00	58,04	R2, R3			PLBG	PLB	PLBG	PLBG					PLBG		
8 5/8	219,08	0,264	6,71	24,00	24,00	35,72	R2, R3		PS											
		0,304	7,72	28,00	28,00	41,67	R2, R3	PS												
		0,352	8,94	32,00	32,00	47,62	R2, R3	PS	PSLBG											
		0,400	10,16	36,00	36,00	53,57	R2, R3		PSLBG	PLBG	PLB	PLBG								
		0,450	11,43	40,00	40,00	59,53	R2, R3			PLBG	PLB	PLBG	PLBG							
9 5/8	244,48	0,312	7,92	32,30	32,30	48,07	R2, R3	PS												
		0,352	8,94	36,00	36,00	53,57	R2, R3	PS	PSLBG											
		0,395	10,03	40,00	40,00	59,53	R2, R3		PSLBG	PLBG	PLB	PLBG								
		0,435	11,05	43,50	43,50	64,74	R2, R3			PLBG	PLB	PLBG	PLBG							
		0,472	11,99	47,00	47,00	69,94	R2, R3			PLBG	PLB	PLBG	PLBG				PLBG			
10 3/4	273,05	0,350	8,89	40,50	40,50	60,27	R2, R3	P	P											
		0,400	10,16	45,50	45,50	67,71	R2, R3		P <sup>1</sup>											
		0,450	11,43	51,00	51,00	75,90	R2, R3		P <sup>1</sup>											

<sup>1</sup> Supply in these grades shall be pre-negotiated

<sup>2</sup> Casing in grade P110 with WT < 8,8 mm only with SR16 and by agreement with customers

<sup>3</sup> After agreement can be supplied „Special Clearance“

## Tubing pipe acc to API 5CT - Dimensional range, weight, grade

Nominal outside diameter		Nominal wall thickness		Labels	Calculated mass		Length	Supplied with pipe end P = plain end					
					Non Upset T&C	plain end		J55	L80-1	N80	P110 + SR16		
inch	mm	inch	mm	lb/ft	lb/ft	kg/m	Range						
1.900	48,26		3,68	2,75	2,72	4,05	R2	P <sup>1</sup>					
2 3/8	60,32	0,167	4,24	4,00	3,94	5,86	R2, R3	P					
		0,190	4,83	4,60	4,44	6,61	R2, R3	P					
2 7/8	73,02	0,217	5,51	6,40	6,17	9,17	R2, R3	P			P <sup>2</sup>		
		0,216	5,49	7,70	7,58	11,29	R2, R3	P	P	P <sup>3</sup>			
		0,254	6,45	9,20	8,81	13,12	R2, R3	P	P	P <sup>3</sup>	P		
3 1/2	88,90	0,289	7,34	10,20	9,92	14,76	R2, R3	P	P	P <sup>3</sup>			
		0,375	9,52	12,70	12,53	18,64	R2		P	P <sup>3</sup>	P		
		0,226	5,74	9,50	9,12	13,57	R2, R3			P <sup>1</sup>			
4	101,60	0,330	8,38	13,20	12,95	19,27	R2, R3			P <sup>1</sup>			
		0,415	10,54	16,10	15,90	23,67	R2, R3			P <sup>1</sup>			
		0,271	6,88	12,60	12,25	18,23	R2, R3	P	P	P <sup>3</sup>			
4 1/2	114,30	0,337	8,56	15,20	15,00	22,32	R2, R3			P			
										P			

<sup>1</sup> Supplied only after agreement

<sup>2</sup> Only N80-Type 1

<sup>3</sup> N80-Type 1 or N80-Q. Supplied by producer option or by agreement with customer

## Drill Pipe body acc to API Spec 5DP - Dimensional range, weight, grade

Nominal outside diameter		Nominal wall thickness		Nominal weight		Length	Grade	Pipe end <sup>1</sup>
in	mm	in	mm	lb/ft	kg/m	range		
3 1/2	88,9	0,368	9,35 <sup>1</sup>	12,31	18,34	2	E, G	EU
4 1/2	114,3	0,337	8,56	14,98	22,32	2	G	IEU
5	127,0	0,362	9,19	17,93	26,7	2	G	IEU

<sup>2</sup> EU = external upset, IEU = internal and external upset.

Note: Pipe can be supplied only without tool joint with upset ends = drill pipe body.

# Finishing of ends, threads, couplings

## Casing:

It is supplied with threaded ends and galvanized or phosphated couplings.

The threads are: short round, long round, buttress, gastight connection Hunting see relevant schedule for Casing, column "Type of thread".

H grade pipes supplied only with short round thread. Tubes according to API Spec 5CT, the last release are supplied with long round or buttress thread. The supply of casing with gastight connection shall be negotiated beforehand.

## Tubing:

It is supplied with round threads and galvanized or phosphated couplings.

Threads on pipes and couplings are protected against damage during transport or manipulation.

## Pup Joints:

It is supplied according to API Spec 5CT, latest release, quantity with prior agreement.

Reducing pieces with different diameters 1.9" ÷ 103/4" and type of thread is necessary discuss before.

Tube end finishing (machining operation) outside & inside according to customer documentation – up to O.D. 5 1/2" and up to 250 mm from end of tube; for tubes over 5 1/2 to O.D. 10 3/4" up to 400 mm from end of tube.

## Drill pipe:

It is supplied with upset ends and without welded-on tool joints.

Any other type of end finishing may also be negotiated with the producer beforehand.

## Line Pipe:

It is supplied with plain-ends and de-burred edges.

Pipes with WT ≤ 3,18mm are supplied only with square cut ends. Pipes with WT > 3,18mm can be supplied either with perpendicularly cut off ends or with beveled ends at an angle of 30° (-0/+5°) as per API Spec 5L, or ISO 3183, or ASTM A 106, or according to other standards (e.g. ASME B16.25) with prior agreement.

# Contact

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