



**Seamless cold drawn hydraulic linepipe according to EN 10305-4 (DIN 2445/2)
Fosfated - E235+N (St. 37.4 - NBK) - annealed**

195

General

Seamless cold drawn linepipe acc. to EN 10305-4 (DIN 2445/2) or EN 10305-1 (DIN 2391/C)
Quality E235 (St 37-4). The material is +N (NBK) annealed.
The tubes are EC-tested, fosfated and sealed with cap at both ends.
The tolerances of this tube are acc. to EN 10305-1-1 (DIN 2391-1).

According to

Version	: +N (NBK) annealed, eddy current tested, oiled (in and out) ends sealed with plastic caps, tubes marked over the whole length.
Outside diameter	: EN 10305-4 (DIN 2445/2)
Material	: fosfated - E235 (St. 37.4) - materialnumber 1.0255
Straightness deviation	: tube > 15 mm 0,25% of the length tube 6-15 mm straightened by the eye tube < 6 mm no guarantee for straightness (max. deviation from.)
Wall thickness tolerance	: maximum +/- 10%
Lengths	: 6.000 mm (-0/+50 mm)

Mechanical properties

Diameter in mm	≤ 16	> 16 < 40	> 40 < 65
Steelgrade		St. 37.4	
Yieldstrength min. Re	235 N/mm ²	225 N/mm ²	215 N/mm ²
Tensile strength Rm (for all diameters)		350-480 N/mm ²	
Elongation (A5) min. % (for all diameters)		25	
Internal pressure		DIN 2413 safetyfactor 2	

Seamless cold drawn hydraulic linepipe according to EN 10305-4
(DIN 2445/2) fosfated - E235+N (St. 37.4 - NBK) - annealed

	Outside mm	Wall thickness mm	Kg/m	Int. pressure in bar (S=2)	articlecode 195
Seamless cold drawn hydraulic linepipe according to EN 10305-4 (DIN 2445/2) fosfated - E235+N (St. 37.4 - NBK) - annealed	4	0,5	0,04	269	
	6	1	0,12	359	
	6	1,5	0,17	539	
	6	2	0,20	719	
	8	1	0,17	269	
	8	1,5	0,24	404	
	8	2	0,30	539	
	10	1	0,22	216	
	10	1,5	0,31	323	
	10	2	0,40	431	
	12	1	0,27	180	
	12	1,5	0,39	269	
	12	2	0,49	359	
	12	3	0,67	539	
	14	1,5	0,46	231	
	14	2	0,59	308	
	14	2,5	0,71	305	
	15	1,5	0,50	216	
	15	2	0,64	287	
	16	1,5	0,54	202	
	16	2	0,69	269	
	16	2,5	0,83	337	
	16	3	0,96	404	
	18	1,5	0,61	172	
	18	2	0,79	229	
	18	3	1,11	344	
	20	1,5	0,68	155	
	20	2	0,89	206	
	20	2,5	1,08	258	
	20	3	1,26	310	
	20	4	1,58	413	
	22	1,5	0,76	141	
	22	2	0,99	188	
	22	2,5	1,20	235	
	22	3	1,41	281	
25	2	1,13	165		
25	2,5	1,39	206		
25	3	1,63	248		
25	4	2,07	330		
28	1,5	0,98	111		
28	2	1,28	147		
28	2,5	1,57	184		
28	3	1,85	221		
30	2	1,38	138		
30	2,5	1,70	172		
30	3	2,00	206		
30	4	2,57	275		
30	5	3,08	344		
35	2	1,63	118		
35	2,5	2,00	147		



	Outside mm	Wall thickness mm	Kg/m	Int. pressure in bar (S=2)	articlecode 195
	35	3	2,37	177	
	35	4	3,06	236	
	35	5	3,70	295	
	38	2,5	2,19	136	
	38	3	2,59	163	
	38	4	3,35	217	
	38	5	4,07	272	
	42	2	1,97	94	
	42	3	2,89	141	
	42	4	3,75	188	
	42	5	4,56	246	
	48	5	5,30	215	
	50	3	3,48	118	
	50	5	5,55	197	
	50	6	6,51	237	
	50	8	8,29	316	
	50	10	9,87	394	
	60	3	4,22	99	
	60	5	6,78	164	
	60	6	7,99	197	
	60	8	10,26	263	
	60,3	6,3	8,39	206	
	60,3	8	10,30	262	
	65	8	11,25	243	
	76,1	2,9	5,24	75	
	76,1	8	13,43	207	
	76,1	10	16,30	259	
	80	10	17,26	247	
	88,9	10	19,50	222	
	88,9	11,1	21,30	246	
	101,6	14,2	30,60	276	
	114,3	3,6	9,83	70	
	115	4	10,95	111	

Seamless cold drawn hydraulic linepipe according to EN 10305-4
(DIN 2445/2) fosfated - E235+N (St. 37.4 - NBK) - annealed

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* All mentioned sizes have a time of delivery of minimum 1 week s.b.u.

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**Seamless cold drawn hydraulic linepipe according to EN 10305-4 (DIN 2445/2)
CRONOLINE[®] (CR 6 free galvanized) E235 (St.37.4) + N (NBK)**

articlecode: **196**

General

Seamless cold drawn hydraulic linepipe according to EN 10305-4 (DIN 2445/2) or EN 10305-1 (DIN 2391/C) in quality E235 (St. 37.4).

The material is + N (NBK) annealed.

The tubes are EC tested and Cr6 free galvanized and sealed with caps at both ends.

The tolerances of this tube are according to EN 10305-1-1 (Din 2391-1).

According to

Version	: +N (NBK) annealed, eddy current tested oiled (in and out) ends sealed with plastic caps, tubes marked over the whole length. Outside CRONOLINE [®] (CR6 free electrolytic galvanized) Inside oiled, ends capped
Outside diameter	: EN 10305-4 (DIN 2445/2)
Material	: CRONOLINE [®] galvanized - E235 (St. 37.4) material number 1.0255. Tubes marked with name CRONOLINE.
Straightness deviation	: tube > 15 mm 0,25% of the length tube 6-15 mm straightened by the eye tube < 6 mm no guarantee for straightness
Wall thickness tolerance	: maximum +/- 10%
Length	: 6.000 mm (-0/+50 mm)

Mechanical properties

Diameter in mm	≤ 16	> 16 <40	> 40 < 65
Steelgrade		E235 (St. 37.4)	
Yieldstrength min. Re	235 N/mm ²	225 N/mm ²	215 N/mm ²
Tensile strength Rm (for all diameters)		350-480 N/mm ²	
Elongation (A5) min. % (for all diameters)		25	

Internal pressure according to DIN 2413 safety factor 2

**Seamless cold drawn hydraulic linepipe according to
EN 10305-4 (DIN 2445/2) CRONOLINE[®]- E235
(St. 37.4) + N (NBK)**



	Outside mm	Wall thickness mm	Kg/m	Int. pressure in bar (S=2)	196
Seamless cold drawn hydraulic linepipe according to EN 10305-4 (DIN 2445/2) CRONOLINE®- E235 (St. 37.4) + N (NBK)	4	1	0,07	539	1203760
	6	1	0,12	359	
	6	1,5	0,17	539	
	8	1	0,17	269	
	8	1,5	0,24	404	
	10	1	0,22	216	
	10	1,5	0,31	323	
	10	2	0,40	431	
	12	1	0,27	180	
	12	1,5	0,39	269	
	12	2	0,49	359	
	14	1,5	0,46	231	
	14	2	0,59	308	
	15	1	0,35	144	
	15	1,5	0,50	216	
	15	2	0,64	287	
	16	1,5	0,54	202	
	16	2	0,69	269	
	16	2,5	0,83	337	
	18	1,5	0,61	172	
	18	2	0,79	229	
	20	1,5	0,68	155	
	20	2	0,89	206	
	20	2,5	1,08	258	
	20	3	1,26	310	
	22	1,5	0,76	141	
	22	2	0,99	188	
	25	1,5	0,87	124	
	25	2	1,13	165	
	25	2,5	1,39	206	
	25	3	1,63	248	
	28	1,5	0,98	111	
	28	2	1,28	147	
28	2,5	1,57	184		
28	3	1,85	221		
30	2,5	1,70	172		
30	3	2,00	206		
30	4	2,57	275		
35	2	1,63	118		
35	3	2,37	177		
38	4	3,35	217		
38	5	4,07	272		
42	2	1,97	94		
42	3	2,89	141		
42	4	3,75	188		
	20	2,5	1,08	399	1205260
	25	2	1,13	256	(St.52.4 NBK)

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**Seamless cold drawn hydraulic linepipe according to EN 10305-4 (DIN 2445/2)
Yellow passivated Galvanized - E235+N (St. 37.4 - NBK) - annealed**

articlecode: **196**

General

Seamless cold drawn linepipe acc. to EN10305-4 (DIN 2445/2) or EN 10305-1 (DIN 2391/C)
Quality E235 (St 37.4). The material is +N (NBK) annealed.
The tubes are EC-tested, **yellow passivated galvanized** and sealed with cap at both ends.
The tolerances of this tube are acc. to EN 10305-1-1 (DIN 2391-1).

According to

Version	: +N (NBK) annealed, eddy current tested, oiled (in and out) ends sealed with plastic caps, tubes marked over the whole length.
Outside diameter	: EN 10305-4 (DIN 2445/2)
Material	: yellow passivated galvanized - E235 (St. 37.4) - materialnumber 1.0255
Straightness deviation	: tube > 15 mm 0,25% of the length tube 6-15 mm straightned by the eye tube < 6 mm no guarantee for straightness (max. deviation from.)
Wall thickness tolerance	: maximum +/- 10%
Lengths	: 6.000 mm (-0/+50 mm)

Mechanical properties

Diameter in mm	≤ 16	> 16 < 40	> 40 < 65
Steelgrade		St. 52.4	
Yieldstrength min. Re	235 N/mm ²	225 N/mm ²	215 N/mm ²
Tensile strength Rm (for all diameters)	350-480 N/mm ²		
Elongation (A5) min. % (for all diameters)	25		
Internal pressure	DIN 2413 safetyfactor 2		

**Seamless cold drawn hydraulic linepipe according to EN 10305-4
(DIN 2445/2) galvanized - E235+N (St. 37.4 - NBK) - annealed**



	Outside mm	Wall thickness mm	Kg/m	Int. pressure in bar (S=2)	articlecode 196
Seamless cold drawn hydraulic linepipe according to EN 10305-4 (DIN 2445/2) galvanized - E235+N (St. 37.4 - NBK) - annealed	4	1	0,07	539	
	6	1	0,12	359	
	6	2	0,20	719	
	8	1	0,17	269	
	10	1	0,22	216	
	12	1	0,27	180	
	12	1,5	0,39	269	
	14	1,5	0,46	231	
	14	2	0,59	308	
	15	1	0,35	144	
	15	1,5	0,50	216	
	15	2	0,64	287	
	16	1,5	0,54	202	
	18	1,5	0,61	172	
	20	1,5	0,68	155	
	20	2	0,89	206	
	20	2,5	1,08	258	
	22	1,5	0,76	141	
	22	2	0,99	188	
	25	1,5	0,87	124	
	25	4	2,07	330	
	28	1,5	0,98	111	
	28	2	1,28	147	
	28	2,5	1,57	184	
	28	3	1,85	221	
	30	2,5	1,70	172	
	30	3	2,00	206	
	32	1,5	1,13	97	
	32	3	2,15	194	
	35	2	1,63	118	
	35	3	2,37	177	
	38	4	3,35	217	

Not mentioned sizes on request

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Seamless cold drawn hydraulic linepipe according to EN 10305-4 (DIN 2445/2)
Fosfated - E355+N (St. 52.4 - NBK) - annealed

articlecode:

195

General

Seamless cold drawn linepipe acc. to EN 10305-4 (DIN 2445/2) or EN 10305-1 (DIN 2391/C)
 Quality E355 (St. 52.4). The material is +N (NBK) annealed.
 The tubes are EC-tested, fosfated and sealed with cap at both ends.
 The tolerances of this tube are acc. to EN 10305-1-1 (DIN 2391-1).

According to

Version	: +N (NBK) annealed, eddy current tested, oiled (in and out) ends sealed with plastic caps, tubes marked over the whole length.
Outside diameter	: EN 10305-4 (DIN 2445/2)
Material	: fosfated - E355 (St. 52.4) - materialnumber 1.0581
Straightness deviation	: tube > 15 mm 0,25% of the length tube 6-15 mm straightened by the eye tube < 6 mm no guarantee for straightness (max. deviation from.)
Wall thickness tolerance	: maximum +/- 10%
Lengths	: 6.000 mm (-0/+50 mm)

Mechanical properties

Diameter in mm	≤ 16	> 16 < 40	>40 <65
Steelgrade		St. 52.4	
Yieldstrength min. Re	355 N/mm ²	345 N/mm ²	355 N/mm ²
Tensile strength Rm (for all diameters)		500-650 N/mm ²	
Elongation (A5) min. % (for all diameters)		21	

**Seamless cold drawn hydraulic linepipe according to EN 10305-4
 (DIN 2445/2)fosfated - E355+N (St. 52.4 - NBK) - annealed**



**Seamless cold drawn hydraulic linepipe according to EN 10305-4
(DIN 2445/2)fosfated - E355+N (St. 52.4 - NBK) - annealed**

Outside mm	Wall thickness mm	Kg/m	Int. pressure in bar (S=2)
12	2	0,49	543
16	2	0,69	407
20	2,5	1,08	397
25	3	1,63	381
30	3	2,00	317
30	4	2,57	422
38	4	3,35	333
38	5	4,07	420
48,3	5	5,34	331
50	5	5,55	317
60	6	7,99	317
66	8,5	12,05	419
73	7	11,39	312
76,1	2,9	5,24	122
76,1	7,1	12,10	295
88,9	8	16,00	285
114,3	3,6	9,83	103

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Seamless cold drawn hydraulic linepipe according to SAE J524
CRONOLINE[®] free galvanized - +N (NBK) - annealed

articlecode: **196**

General

Seamless cold drawn line pipe according to SAE J524
The material is +N (NBK) annealed.
The tubes are EC-tested, yellow passivated, galvanized and sealed with caps at both ends.
The tolerances of this tube are according to EN 10305-1-1 (DIN 2391-1).

According to

Version	: +N (NBK) annealed, eddy current tested, oiled (in and out) ends sealed with plastic caps, tubes marked over the whole length.
Outside diameter	: EN 10305-1 (DIN 2391)
Material	: CRONOLINE [®] galvanized- SAE J524
Straightness deviation	: tube > 15 mm 0,25% of the length tube 6-15 mm straightened by the eye tube < 6 mm no guarantee for straightness (max. deviation from.)
Wall thickness tolerance	: maximum +/- 10%
Lengths	: 6.000 mm (-0/+50 mm)

Mechanical properties

Tensile strength RM	170 N/mm ²
Yieldstrength min.	310 N/mm ²
Elongation (A5) min. %	35
HRB max.	65

Seamless cold drawn hydraulic linepipe according to SAE J524
CRONOLINE[®] galvanized - +N (NBK) - annealed



	Outside mm	Wall thickness mm	Kg/m	Int. pressure in bar (S=2)	articlecode 196
	4,76	0,71	0,07	233	
	6,35	0,89	0,12	217	
	7,94	0,89	0,15	175	
	9,53	0,89	0,19	146	
	9,53	1,24	0,25	203	
	9,53	1,65	0,32	334	
	12,70	0,89	0,26	109	
	12,70	1,24	0,35	152	
	12,70	1,65	0,45	203	
	15,88	1,24	0,45	122	
	15,88	1,65	0,58	162	
	15,88	2,11	0,72	207	
	19,05	1,24	0,54	102	
	19,05	1,65	0,71	135	
	19,05	2,41	0,99	197	
	19,05	2,77	1,11	277	
	21,30	2,80	1,28	237	
	25,40	1,65	0,97	101	
	25,40	2,11	1,21	130	
	25,40	2,77	1,55	170	
	25,40	3,05	1,68	187	
	31,75	3,05	2,16	150	

**Seamless cold drawn hydraulic linepipe according to SAE J524
 CRONOLINE® galvanized - +N (NBK) - annealed**

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