



BUHLMANN
TUBE SOLUTIONS

Stocklist – DIN Boiler Tubes
Vorratsliste – DIN Kesselrohre

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DIN Boiler Tubes DIN Kesselrohre

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Stocklist Contains Tubes in the Following Grades
Vorratsliste enthält Rohre in folgenden Qualitäten

Longitudinally welded boiler tubes to DIN 2458/17177, material St37.8/I resp. to EN 10217-2, material P235GH TC1, V = 1.0, with mill test certificate to EN 10204/3.1, in random lengths of approx. 12 meters

Längsnahtgeschweißte Kesselrohre nach DIN 2458/17177, Werkstoff St37.8/I bzw. nach EN 10217-2, Werkstoff P235GH TC1, rohschwarz, mit APZ nach EN 10204/3.1, in Herstellungslängen von ca. 12 m

Seamless boiler tubes to DIN 2448/17175, material St35.8/I resp. to EN 10216-2, material P235GH TC1, with mill test certificate to EN 10204/3.1, in random lengths

Nahtlose Kesselrohre nach DIN 2448/17175, Werkstoff St35.8/I bzw. nach EN 10216-2, Werkstoff P235GH TC1, mit Werksabnahmezeugnis nach EN 10204/3.1, in Herstellungslängen

Seamless tubes to DIN 2448/17173 resp. EN 10216-4, material TTSt35N / P215NL TC1, 10 mm wall and above material TTSt35V / P255QL TC1, test category 1, with mill test certificate to EN 10204/3.1, in random lengths

Nahtlose Rohre nach DIN 2448/17173 bzw. EN 10216-4, Werkstoff TTSt35N / P215NL TC1, über 10 mm Wand Werkstoff TTSt35V / P255QL TC1, Prüfkategorie 1, mit Werksabnahmezeugnis nach EN 10204/3.1, in Herstellungslängen

Seamless boiler tubes to DIN 2448/17175, material St35.8/III resp. to EN 10216-2, material P235GH TC2, with mill test certificate to EN 10204/3.1, in random lengths

Nahtlose Kesselrohre nach DIN 2448/17175, Werkstoff St35.8/III bzw. nach EN 10216-2, Werkstoff P235GH TC2, mit Werksabnahmezeugnis nach EN 10204/3.1, in Herstellungslängen

Seamless boiler tubes to DIN 2448/17175, material 15Mo3 resp. to EN 10216-2, material 16Mo3, with mill test certificate to EN 10204/3.2 TÜV, in random lengths

Nahtlose Kesselrohre nach DIN 2448/17175, Werkstoff 15Mo3 bzw. nach EN 10216-2, Werkstoff 16Mo3, mit Werksabnahmezeugnis nach EN 10204/3.2 TÜV, in Herstellungslängen

Seamless boiler tubes to DIN 2448/17175, material 13CrMo44 resp. to EN 10216-2, material 13CrMo4-5, with mill test certificate to EN 10204/3.2 TÜV, in random lengths

Nahtlose Kesselrohre nach DIN 2448/17175, Werkstoff 13CrMo44 bzw. nach EN 10216-2, Werkstoff 13CrMo4-5, mit Werksabnahmezeugnis nach EN 10204/3.2 TÜV, in Herstellungslängen

Seamless boiler tubes to DIN 2448/17175, material 10CrMo910 resp. to EN 10216-2, material 10CrMo9-10, with mill test certificate to EN 10204/3.2 TÜV, in random lengths

Nahtlose Kesselrohre nach DIN 2448/17175, Werkstoff 10CrMo910 bzw. nach EN 10216-2, Werkstoff 10CrMo9-10, mit Werksabnahmezeugnis nach EN 10204/3.2 TÜV, in Herstellungslängen

Seamless boiler tubes to DIN 2448/17175, material X20CrMoV121 resp. to EN 10216-2, material X20CrMoV11-1, with mill test certificate to EN 10204/3.2 TÜV, in random lengths

Nahtlose Kesselrohre nach DIN 2448/17175, Werkstoff X20CrMoV121 bzw. nach EN 10216-2, Werkstoff X20CrMoV11-1, mit Werksabnahmezeugnis nach EN 10204/3.2 TÜV, in Herstellungslängen

Seamless boiler tubes to DIN 2448/17175, material X10CrMoVNb9-1 resp. to EN 10216-2, material X10CrMoVNb9-1, with mill test certificate to EN 10204/3.2 TÜV, in random lengths

Nahtlose Kesselrohre nach DIN 2448/17175, Werkstoff X10CrMoVNb9-1 bzw. nach EN 10216-2, Werkstoff X10CrMoVNb9-1, mit Werksabnahmezeugnis nach EN 10204/3.2 TÜV, in Herstellungslängen

Seamless boiler tubes to DIN 2448/17175, material 15NiCuMoNb5 (WB36) resp. to EN 10216-2, material 15NiCuMoNb5-6-4, with mill test certificate to EN 10204/3.2 TÜV, in random lengths

Nahtlose Kesselrohre nach DIN 2448/17175, Werkstoff 15NiCuMoNb5 (WB36) bzw. nach EN 10216-2, Werkstoff 15NiCuMoNb5-6-4, mit Werksabnahmezeugnis nach EN 10204/3.2 TÜV, in Herstellungslängen

Seamless boiler tubes to DIN 2448/17175, material 15CrMoV510, with mill test certificate to EN 10204/3.2 TÜV, in random lengths

Nahtlose Kesselrohre nach DIN 2448/17175, Werkstoff 15CrMoV510, mit Werksabnahmezeugnis nach EN 10204/3.2 TÜV, in Herstellungslängen

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Boiler Tubes
Kesselrohre

DIN Boiler Tubes

DIN Kesselrohre

OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m														
				Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoVNB9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510			
10,2	1,8		0,37					●									
	2,0		0,40						●	●							
12,0	1,5		0,39							●	●						
	2,0		0,49								●						
13,5	1,8		0,52		●		●	●	●								
	2,0		0,57		●		●	●	●								
	2,3		0,64		●		●	●	●								
	2,6		0,70		●		●	●	●	●							
	2,9		0,76		●		●	●	●	●							
	3,2		0,81		●					●							
	3,6		0,88						●	●							
14,0	2,0		0,59							●							
	2,5		0,71					●	●								
	3,2		0,85						●								
16,0	2,0		0,69		●			●									
	2,6		0,86		●		●										
	2,9		0,94					●	●								
17,2	1,8		0,68		●		●	●	●								
	2,0		0,75		●	●	●	●	●	●							
	2,3		0,85		●		●	●	●	●							
	2,6		0,94		●		●	●	●	●							
	2,9		1,02	●	●		●	●	●	●	●						
	3,2		1,10		●		●	●	●	●							
	3,6		1,21		●		●	●	●	●	●						
	4,0		1,30		●		●	●	●	●	●						
	4,5		1,41								●						
20,0	2,0		0,89		●			●									
	2,6		1,12		●		●	●		●							
	2,9		1,22		●		●	●	●								
	3,2		1,33		●			●									
	3,6		1,46		●			●	●								
	4,0		1,58		●			●	●	●							
	4,5		1,72					●									
	5,0		1,85		●												
21,3	2,0		0,95	●	●	●	●	●	●								
	2,3		1,08		●	●		●									
	2,6		1,20		●		●	●	●	●							

DIN Boiler Tubes

DIN Kesselrohre

OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m	Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoNb9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510
21,3	2,9		1,32		●		●	●	●	●				
	3,2		1,43	●	●		●	●	●	●				
	3,6		1,57	●	●		●	●	●	●				
	4,0		1,71	●	●		●	●	●	●				
	4,5		1,86		●		●	●	●	●				
	5,0		2,01		●		●	●	●	●				
	5,6		2,17		●		●	●	●	●				
	6,3		2,33					●	●					
	7,1		2,49						●					
22,0	4,0		1,78					●						
25,0	2,0		1,13		●		●	●						
	2,3		1,29		●			●	●					
	2,6		1,44		●		●	●	●	●				
	2,9		1,58		●		●	●	●	●				
	3,2		1,72		●		●	●	●					
	3,6		1,90		●		●	●	●					
	4,0		2,07		●		●	●	●	●	●			
	4,5		2,28		●		●	●	●	●				
	5,0		2,47		●		●	●	●	●				
	5,6		2,68						●	●	●			
	6,3		2,91		●				●	●	●			
26,9	2,3		1,40	●	●	●	●	●	●	●				
	2,6		1,56	●	●		●	●	●					
	2,9		1,72	●	●		●	●	●	●	●			
	3,2		1,87	●	●	●	●	●	●	●				
	3,6		2,07		●		●	●	●	●				
	4,0		2,26	●	●		●	●	●	●	●			
	4,5		2,49		●		●	●	●	●				
	5,0		2,70		●		●	●	●	●				
	5,6		2,94		●		●	●	●	●				
	6,3		3,20		●		●	●	●	●				
	7,1		3,47		●				●	●	●			
30,0	2,6		1,76	●	●		●	●	●					
	2,9		1,94		●		●	●	●					
	3,2		2,11		●		●	●	●					
	3,6		2,34		●		●	●	●					
	4,0		2,56		●		●	●	●	●				
	4,5		2,83		●		●	●	●	●				
	5,0		3,08		●		●	●	●	●				
	5,6		3,37		●			●	●	●				

DIN Boiler Tubes

DIN Kesselrohre

OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m													
				Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoVNB9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510		
30,0	6,3		3,68		●			●	●	●						
	7,1		4,01		●				●	●						
31,8	2,6		1,87		●			●	●	●						
	2,9		2,07		●			●	●	●	●					
	3,2		2,26	●	●			●	●	●	●					
	3,6		2,50		●			●	●	●	●					
	4,0		2,74		●			●	●	●	●	●				
	4,5		3,03		●			●	●	●	●	●				
	5,0		3,30		●			●	●	●	●	●	●			
	5,6		3,62		●			●	●	●	●	●	●			
	6,3		3,96		●			●	●	●	●	●	●			
	7,1		4,32		●			●	●	●	●	●	●			
	8,0		4,70		●			●	●	●	●	●	●			
	8,8		4,99					●								
	33,7	2,6		1,99	●	●	●	●	●	●	●					
2,9			2,20		●		●	●	●	●						
3,2			2,41		●	●	●	●	●	●	●					
3,6			2,67		●		●	●	●	●	●					
4,0			2,93	●	●	●	●	●	●	●	●					
4,5			3,24		●		●	●	●	●	●					
5,0			3,54		●	●	●	●	●	●	●	●				
5,6			3,88	●	●		●	●	●	●	●	●	●			
6,3			4,26		●		●	●	●	●	●	●	●			
7,1			4,66		●		●	●	●	●	●	●	●			
8,0			5,07		●		●	●	●	●	●	●	●			
8,8			5,40		●			●			●					
10,0			5,84		●						●					
35,0	3,6		2,79							●						
	4,0		3,06					●	●							
	4,5		3,38					●	●							
	5,0		3,70		●				●							
	7,1		4,89					●								
38,0	2,6		2,27	●	●		●	●	●	●						
	2,9		2,51	●	●		●	●	●	●						
	3,2		2,75	●	●		●	●	●	●	●					
	3,6		3,05	●	●		●	●	●	●	●	●				
	4,0		3,35		●		●	●	●	●	●	●				
	4,5		3,72		●		●	●	●	●	●	●				
	5,0		4,07		●		●	●	●	●	●	●	●			
	5,6		4,47		●		●	●	●	●	●	●	●			

DIN Boiler Tubes

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OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m	Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoNb9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510	
38,0	6,3		4,93		●		●	●	●	●	●				
	7,1		5,41		●		●	●	●	●					
	8,0		5,92		●		●	●	●	●					
	8,8		6,34		●			●	●	●					
	10,0		6,91		●			●	●	●					
42,2	6,4		5,60								●				
42,4	2,6		2,55				●	●	●						
	2,9		2,82	●	●	●	●	●	●						
	3,2		3,09	●	●		●	●	●	●	●				
	3,6		3,44		●		●	●	●	●					
	4,0		3,79	●	●	●	●	●	●	●					
	4,5		4,21		●		●	●	●	●					
	5,0		4,61		●	●	●	●	●	●	●				
	5,6		5,08		●		●	●	●	●	●				
	6,3		5,61		●		●	●	●	●	●				
	7,1		6,18		●		●	●	●	●	●				
	8,0		6,79		●			●	●	●	●				
	8,8		7,29		●			●	●	●					
	10,0		7,99		●			●	●	●					
	44,5	2,6		2,69		●		●	●	●	●				
		2,9		2,98		●		●	●	●					
3,2			3,26	●	●		●	●	●	●					
3,6			3,63		●		●	●	●	●	●				
4,0			4,00		●		●	●	●	●	●				
4,5			4,44		●		●	●	●	●	●				
5,0			4,87		●		●	●	●	●	●				
5,6			5,37		●		●	●	●	●					
6,3			5,94		●		●	●	●	●	●				
7,1			6,55		●		●	●	●	●	●				
8,0			7,20		●			●	●	●	●				
8,8			7,75					●	●	●	●				
10,0			8,51		●			●	●	●					
11,0			9,09							●					
48,3		2,6		2,93	●	●	●	●	●	●	●				
	2,9		3,25	●	●		●	●	●						
	3,2		3,56	●	●	●	●	●	●	●					
	3,6		3,97	●	●	●	●	●	●	●					
	4,0		4,37	●	●	●	●	●	●	●					
	4,5		4,86									●			
	5,0		5,34		●	●	●	●	●	●	●				

DIN Boiler Tubes

DIN Kesselrohre

OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m														
				Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTSi35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoVNb9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510			
48,3	5,1		5,40		●		●	●	●	●							
	5,6		5,90		●		●	●	●	●							
	6,3		6,53	●	●		●	●	●	●							
	7,1		7,21		●		●	●	●	●			●				
	8,0		7,95		●		●	●	●	●							
	8,8		8,57		●		●	●	●	●		●					
	10,0		9,45		●		●	●	●	●							
	10,2		9,54										●				
	11,0		10,10		●			●	●	●							
	12,5		11,00		●			●	●	●							
	51,0	2,6		3,10	●	●		●	●	●							
2,9			3,44		●		●	●	●	●							
3,2			3,77	●	●		●	●	●	●							
3,6			4,21		●		●	●	●	●							
4,0			4,64		●		●	●	●	●							
4,5			5,16		●		●	●	●	●		●					
5,0			5,67		●		●	●	●	●		●					
5,6			6,27		●		●	●	●	●		●					
6,3			6,94		●		●	●	●	●		●					
7,1			7,69		●		●	●	●	●							
8,0			8,48		●		●	●	●	●							
8,8			9,16		●		●	●	●	●							
10,0			10,10		●		●	●	●	●							
11,0			10,90		●		●	●	●	●							
12,5			11,90		●						●						
14,2		12,90		●													
54,0	5,0		6,04						●								
	5,6		6,68							●							
	8,0		9,08						●	●							
57,0	2,9		3,87	●	●		●	●	●	●							
	3,2		4,25	●	●		●	●	●		●						
	3,6		4,74	●	●		●	●	●	●							
	4,0		5,23		●		●	●	●	●							
	4,5		5,83		●		●	●	●	●							
	5,0		6,41		●		●	●	●	●							
	5,6		7,10		●		●	●	●	●		●					
	6,3		7,88		●		●	●	●	●							
	7,1		8,74		●		●	●	●	●							
	8,0		9,67		●		●	●	●	●							
	8,8		10,50		●		●	●	●	●							
	10,0		11,60		●		●	●	●	●							

DIN Boiler Tubes

DIN Kesselrohre

OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m													
				Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoNb9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510		
57,0	11,0		12,50					●	●	●						
	12,5		13,70		●			●	●							
	14,2		15,00		●											
60,3	2,9		4,11	●	●	●	●	●	●	●	●					
	3,2		4,51	●	●		●	●	●	●	●					
	3,6		5,03	●	●	●	●	●	●	●	●					
	4,0		5,55	●	●	●	●	●	●	●	●					
	4,5		6,19	●	●		●	●	●	●	●					
	5,0		6,82	●	●	●	●	●	●	●	●					
	5,5		7,47											●		
	5,6		7,55		●		●	●	●	●	●	●				
	6,3		8,39	●	●	●	●	●	●	●	●					
	7,1		9,32		●		●	●	●	●	●					
	8,0		10,30		●		●	●	●	●	●					
	8,7		11,10											●		
	8,8		11,20		●		●	●	●	●	●					
	10,0		12,40		●		●	●	●	●	●					
	11,0		13,40		●		●	●	●	●	●	●				
	12,5		14,70		●		●	●	●	●	●					
	14,2		16,10		●		●	●	●	●	●					
	16,0		17,50		●		●	●	●	●	●					
	17,5		18,50		●		●	●	●	●	●					
63,5	2,9		4,33	●	●		●	●	●	●						
	3,2		4,76	●	●		●	●	●	●						
	3,6		5,32		●	●	●	●	●	●	●					
	4,0		5,87		●		●	●	●	●	●					
	4,5		6,55		●		●	●	●	●	●					
	5,0		7,21		●		●	●	●	●	●	●				
	5,6		8,00		●		●	●	●	●	●					
	6,3		8,89		●		●	●	●	●	●	●				
	7,1		9,88		●		●	●	●	●	●					
	8,0		10,90		●		●	●	●	●	●	●				
	8,8		11,90		●		●	●	●	●	●					
	10,0		13,20		●		●	●	●	●	●					
	11,0		14,20					●	●	●	●					
	12,5		15,70			●		●	●	●	●					
	14,2		17,30					●	●	●	●					
17,5		19,90			●											
70,0	2,9		4,80	●	●		●	●								
	3,2		5,27	●	●		●	●								

DIN Boiler Tubes

DIN Kesselrohre

OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m													
				Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoVNb9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510		
70,0	3,6		5,90		●		●	●	●	●	●					
	4,0		6,51		●		●	●	●	●	●					
	4,5		7,27		●		●	●	●	●	●					
	5,0		8,01		●		●	●	●	●	●					
	5,6		8,89	●	●		●	●	●	●	●	●				
	6,3		9,90		●		●	●	●	●	●					
	7,1		11,00		●		●	●	●	●	●					
	8,0		12,20		●		●	●	●	●	●					
	8,8		13,30		●		●	●	●	●	●					
	10,0		14,80		●		●	●	●	●	●					
	11,0		16,00		●		●	●	●	●	●					
	12,5		17,70		●		●	●	●	●	●					
	14,2		19,50		●		●	●	●	●	●					
	16,0		21,30		●		●	●	●	●	●					
	17,5		22,70		●		●	●	●	●	●					
76,1	2,9		5,24	●	●	●	●	●	●	●						
	3,2		5,75	●	●	●	●	●	●	●						
	3,6		6,44	●	●	●	●	●	●	●						
	4,0		7,11	●	●	●	●	●	●	●						
	4,5		7,95	●	●		●	●	●	●						
	5,0		8,77	●	●	●	●	●	●	●						
	5,6		9,74		●		●	●	●	●	●					
	6,3		10,80		●	●	●	●	●	●	●					
	7,1		12,10		●		●	●	●	●	●					
	8,0		13,40		●		●	●	●	●	●					
	8,8		14,60		●		●	●	●	●	●					
	10,0		16,30		●		●	●	●	●	●					
	11,0		17,70		●		●	●	●	●	●					
	12,5		19,60		●		●	●	●	●	●					
	14,2		21,70		●		●	●	●	●	●					
16,0		23,70		●		●	●	●	●	●						
17,5		25,30		●		●	●	●	●	●						
20,0		27,70		●		●	●	●	●	●						
82,5	3,2		6,26	●	●				●							
	3,6		7,00		●		●	●								
	4,0		7,74		●		●	●	●							
	4,5		8,66		●		●	●								
	5,0		9,56		●		●	●	●							
	5,6		10,60		●		●	●	●	●						
	6,3		11,80		●		●	●	●	●						
	7,1		13,20		●		●	●	●	●						
8,0		14,70		●		●	●	●	●							

DIN Boiler Tubes

DIN Kesselrohre

OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m	Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoNb9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510
82,5	8,8		16,00		●		●	●						
	10,0		17,90		●		●	●	●	●				
	11,0		19,40		●		●	●						
	12,5		21,60		●		●	●	●	●				
	14,2		23,90		●		●	●	●	●				
	16,0		26,20		●			●						
	17,5		28,10		●		●	●		●				
	20,0		30,80		●			●						
88,9	3,2		6,76	●	●	●	●	●	●					
	3,6		7,57	●	●	●	●	●	●					
	4,0		8,38		●	●	●	●	●	●				
	4,5		9,37		●		●	●	●	●				
	5,0		10,30	●	●	●	●	●	●	●				
	5,6		11,50	●	●	●	●	●	●	●				
	6,3		12,80	●	●	●	●	●	●	●				
	7,1		14,30		●		●	●	●	●				
	7,6		15,30									●		
	8,0		16,00		●	●	●	●	●	●				
	8,8		17,40		●		●	●	●	●				
	10,0		19,50		●		●	●	●	●				
	11,0		21,10		●		●	●	●	●				
	12,5		23,60		●		●	●	●	●				
	14,2		26,20		●		●	●	●	●				
	16,0		28,80		●		●	●	●	●				
	17,5		30,80		●		●	●	●	●				
	20,0		34,00		●		●	●	●	●				
	22,2		36,50						●	●				
25,0		39,40		●				●	●	●				
95,0	8,0		17,20		●									
	10,0		21,00		●									
	12,5		25,40					●						
101,6	3,6		8,70	●	●		●	●	●					
	4,0		9,63		●		●	●	●					
	4,5		10,80		●		●	●	●					
	5,0		11,90		●		●	●	●					
	5,6		13,30		●		●	●	●	●				
	6,3		14,80		●		●	●	●	●				
	7,1		16,60		●		●	●	●	●				
	8,0		18,50		●		●	●	●	●				
	8,8		20,10		●		●	●	●	●				
10,0		22,60		●		●	●	●	●					

DIN Boiler Tubes

DIN Kesselrohre

OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m														
				Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoVNB9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510			
101,6	11,0		24,60		●		●	●	●								
	12,5		27,50		●		●	●	●	●							
	14,2		30,60		●		●	●	●	●							
	16,0		33,80		●		●	●	●	●							
	17,5		36,30		●		●	●	●	●							
	20,0		40,20		●		●	●	●	●							
	22,2		43,50		●			●		●							
	25,0		47,20		●				●	●	●						
	28,0		50,80						●								
108,0	3,6		9,27		●		●	●	●								
	4,0		10,30		●		●	●	●								
	4,5		11,50		●		●	●	●								
	5,0		12,70		●		●	●	●	●							
	5,6		14,10		●		●	●	●	●							
	6,3		15,80		●		●	●	●	●	●						
	7,1		17,70		●		●	●	●	●	●						
	8,0		19,70		●		●	●	●	●	●						
	8,8		21,50		●		●	●	●	●							
	10,0		24,20		●		●	●	●	●	●						
	11,0		26,30		●		●	●	●	●	●						
	12,5		29,40		●		●	●	●	●	●						
	14,2		32,80		●		●	●	●	●	●						
	16,0		36,30		●		●	●	●	●	●						
	17,5		39,10		●			●	●	●	●						
	20,0		43,40		●				●		●						
22,2		47,00							●								
25,0		51,20			●			●		●							
30,0		57,70						●									
114,3	3,6		9,83	●	●	●	●	●	●								
	4,0		10,90		●		●	●	●	●							
	4,5		12,20		●	●	●	●	●	●							
	5,0		13,50		●	●	●	●	●	●							
	5,6		15,00	●	●		●	●	●	●							
	6,3		16,80		●	●	●	●	●	●							
	7,1		18,80		●	●	●	●	●	●							
	8,0		21,00		●	●	●	●	●	●							
	8,6		22,30												●		
	8,8		22,90		●	●	●	●	●	●					●		
	10,0		25,70		●	●	●	●	●	●	●						
	11,0		28,00		●		●	●	●	●	●						
	11,1		28,30												●		
12,5		31,40		●			●	●	●	●							

DIN Boiler Tubes

DIN Kesselrohre

OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m	Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoNb9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510
114,3	13,5		33,50									●		
	14,2		35,10	●			●	●	●	●		●		
	16,0		38,80	●			●	●	●	●				
	17,5		41,80	●			●	●	●	●			●	
	20,0		46,50	●			●	●	●	●				
	22,2		50,40	●			●	●	●	●		●		
	25,0		55,10	●			●	●	●	●				
	28,0		59,60					●	●	●				
	30,0		62,40					●		●				
121,0	4,5		12,90	●			●							
	5,0		14,30	●				●						
	5,6		15,90	●				●						
	6,3		17,80	●				●						
	7,1		19,90	●										
	8,0		22,30	●	●		●	●	●	●				
	8,8		24,30						●					
	10,0		27,40	●				●	●					
	11,0		29,80	●										
	12,5		33,40						●					
	14,2		37,40	●										
	20,0		49,80					●						
	25,0		59,20							●				
127,0	4,0		12,10	●				●						
	4,5		13,60	●				●						
	5,0		15,00	●	●		●	●	●					
	5,6		16,80					●						
	6,3		18,80	●				●						
	7,1		21,00	●			●	●	●					
	8,0		23,50	●			●	●	●					
	8,8		25,70	●			●	●	●					
	10,0		28,90	●			●	●	●					
	11,0		31,50	●			●	●	●					
	12,5		35,30	●			●	●	●	●				
	14,2		39,50	●			●	●	●					
	16,0		43,80	●				●	●					
	17,5		47,30	●				●	●	●				
	20,0		52,80	●			●	●						
22,2		57,40	●						●					
25,0		62,90	●				●							
133,0	4,0		12,70	●			●	●	●					
	4,5		14,30	●					●					

DIN Boiler Tubes

DIN Kesselrohre

OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m													
				Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoVNB9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510		
133,0	5,0		15,80		●		●	●	●							
	5,6		17,60		●		●	●								
	6,3		19,70		●		●	●	●							
	7,1		22,00		●		●	●	●	●						
	8,0		24,70		●		●	●	●							
	8,8		27,00		●		●	●	●							
	10,0		30,30		●		●	●	●	●						
	11,0		33,10		●		●	●	●							
	12,5		37,10		●		●	●	●	●						
	14,2		41,60		●		●	●	●	●						
	16,0		46,20		●		●	●	●	●	●					
	17,5		49,80		●		●	●	●	●		●				
	20,0		55,70		●		●	●	●	●						
	22,2		60,70					●								
	25,0		66,60							●						
	30,0		76,20						●		●					
	32,0		79,70						●		●					
139,7	4,0		13,40	●	●	●	●	●	●							
	4,5		15,00		●		●	●	●							
	5,0		16,60		●	●	●	●	●	●						
	5,6		18,50		●		●	●	●							
	6,3		20,70	●	●	●	●	●	●	●						
	7,1		23,20		●		●	●	●							
	8,0		26,00	●	●	●	●	●	●	●					●	
	8,8		28,40		●		●	●	●	●						
	10,0		32,00		●	●	●	●	●	●						
	11,0		34,90		●		●	●	●							
	12,5		39,20		●		●	●	●	●	●					
	14,2		43,90		●		●	●	●	●	●	●				
	16,0		48,80		●		●	●	●	●	●					
	17,5		52,70		●		●	●	●	●						
	20,0		59,00		●		●	●	●	●			●	●		
	22,2		64,30		●		●	●	●	●						
	25,0		70,70		●		●	●	●	●						
28,0		77,10		●			●		●	●	●					
30,0		81,20		●			●		●		●					
36,0		92,10					●			●						
146,0	17,5		55,50		●											
152,4	4,5		16,40		●			●								
	5,0		18,20		●											
	5,6		20,30		●											

DIN Boiler Tubes

DIN Kesselrohre

OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m	Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoNb9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510
152,4	6,3		22,70		●			●						
	7,1		25,40		●			●						
	8,0		28,50		●		●	●		●				
	8,8		31,20		●									
	10,0		35,10		●			●	●					
	11,0		38,40		●		●							
	12,5		43,10		●		●							
	14,2		48,40		●			●						
	16,0		53,80		●			●	●					
	17,5		58,20		●			●						
	20,0		65,30		●			●	●	●				
	22,2		71,30		●				●	●				
	25,0		78,50		●				●	●	●			
	159,0	4,5		17,10		●		●	●	●	●			
5,0			19,00		●			●	●					
5,6			21,20		●		●	●	●					
6,3			23,70		●		●	●	●	●				
7,1			26,60		●		●	●	●	●				
8,0			29,80		●		●	●	●	●				
8,8			32,60		●		●	●	●					
10,0			36,70		●		●	●	●	●				
11,0			40,10		●			●	●					
12,5			45,20		●		●	●	●	●				
14,2			50,70		●		●	●	●				●	
16,0			56,40		●		●	●	●	●				
17,5			61,10		●		●	●	●	●				
20,0			68,60		●		●	●	●	●				
22,2			74,90		●		●	●	●					
25,0			82,60		●			●	●					
28,0		90,50		●			●	●	●	●				
30,0		95,40		●			●	●	●					
36,0		109,00		●										
165,1	32,0		105,00							●				
168,3	4,5		18,20	●	●	●	●	●	●	●				
	5,0		20,10		●		●	●	●					
	5,6		22,50		●	●	●	●	●	●				
	6,3		25,20		●	●	●	●	●	●				
	7,1		28,20		●	●	●	●	●	●			●	
	8,0		31,60	●	●	●	●	●	●	●				
	8,8		34,60		●	●	●	●	●	●				
	10,0		39,00		●	●	●	●	●	●			●	

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DIN Kesselrohre

OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m	Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoVNB9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510
				▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
168,3	11,0		42,70		●		●	●	●	●				
	12,5		48,00		●	●	●	●	●	●				
	14,2		54,00				●	●	●	●				
	14,3		54,20									●		
	16,0		60,10		●		●	●	●	●				
	17,5		65,10		●		●	●	●	●				
	18,3		67,50									●		
	20,0		73,10		●		●	●	●	●			●	
	22,2		80,00		●		●	●	●	●				
	25,0		88,30		●		●	●	●	●				
	28,0		96,90		●			●	●	●				
	30,0		102,00		●			●	●	●				
	32,0		108,00		●			●	●	●				
	36,0		117,00					●	●	●				
	40,0		127,00							●				
	45,0		137,00						●					
177,8	5,0		21,30		●			●						
	6,3		26,60		●		●	●		●				
	7,1		29,90		●									
	8,0		33,50		●		●	●	●					
	8,8		36,70		●									
	10,0		41,40		●		●	●	●	●		●		
	11,0		45,20		●			●	●					
	12,5		51,00		●		●	●	●					
	14,2		57,30		●		●	●		●				
	16,0		63,80		●		●	●	●					
	17,5		69,20		●		●	●	●					
	20,0		77,80		●		●	●	●	●				
	22,2		85,20		●		●	●		●				
	25,0		94,20		●			●	●	●				
	28,0		103,00					●	●	●				
	30,0		109,00					●		●				
32,0		115,00					●		●					
36,0		126,00						●	●					
40,0		136,00							●	●				
179,0	38,0		132,10						●					
193,7	5,6		26,00		●		●	●	●					
	6,3		29,10		●	●	●	●	●	●				
	7,1		32,70		●		●	●	●					
	8,0		36,60		●		●	●	●					
	8,8		40,10		●		●	●						

DIN Boiler Tubes

DIN Kesselrohre

OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m	Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoVNB9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510
193,7	10,0		45,30		●		●	●	●	●				
	11,0		49,60		●		●	●	●					
	12,5		55,90		●		●	●	●	●		●		
	14,2		62,90		●		●	●	●	●		●	●	
	16,0		70,10		●		●	●	●	●				
	17,5		76,00		●		●	●	●	●				
	20,0		85,70		●		●	●	●	●		●	●	
	22,2		93,90		●		●	●	●	●				
	25,0		104,00		●		●	●	●	●				
	28,0		114,00		●				●	●				
	30,0		121,00						●	●	●			
	32,0		128,00						●	●	●			
	36,0		140,00		●				●	●	●		●	
	37,0		143,00						●					
	38,0		145,90						●					
	40,0		152,00						●	●	●			
	45,0		165,00						●					
50,0		177,00						●						
203,0	35,0		145,00							●				
206,0	18,0		83,50					●						
216,0	12,5		62,70									●		
	14,2		70,70						●					
	34,0	216,0 OD X 30,5 mm MW	152,60							●				
219,1	4,5		23,80	●										
	6,3		33,10	●	●	●	●	●	●	●				
	7,1		37,10		●	●	●	●	●	●				
	8,0		41,60		●	●	●	●	●	●				
	8,8		45,60		●	●	●	●	●	●	●		●	
	10,0		51,60		●	●	●	●	●	●				
	11,0		56,50		●		●	●	●	●			●	
	12,5		63,70		●	●	●	●	●	●		●		
	12,7		64,70									●		
	14,2		71,80		●		●	●	●	●			●	
	16,0		80,10		●		●	●	●	●			●	
	17,5		87,00		●		●	●	●	●				
	18,3		90,30									●		
	20,0		98,20		●		●	●	●	●		●		
	22,2		108,00		●		●	●	●	●			●	
25,0		120,00		●		●	●	●	●		●			
28,0		132,00		●		●	●	●	●					

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OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m	Sf37.8/ P235GH TC1	Sf35.8/ P235GH TC1	TTSf35N / V P215NL / P255QL TC1	Sf35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoVNB9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510
219,1	30,0		140,00		●		●	●	●	●			●	
	32,0		148,00		●			●	●	●		●	●	
	36,0		163,00		●			●	●	●	●			
	40,0		177,00		●			●	●	●				
	45,0		193,00					●	●	●				
	50,0		209,00						●	●				
	52,0		214,30									●		
	55,0		223,00						●					
224,0	20,0	182 ID X 17,7 mm MW	100,60									●		
225,0	12,5	200 ID X 12,5 mm	65,50					●						
	12,5	200 ID X 11,0 mm MW	65,50									●		
226,0	15,2	196 ID X 13,5 mm MW	81,10										●	
227,0	28,0	171 ID X 25,0 mm MW	66,40						●					
227,6	20,8		106,10								●			
228,0	12,5	202 ID X 12,5 mm	66,43						●					
230,0	15,0	200 ID X 30,0 mm MW	68,28								●			
235,0	17,0	200 ID X 14,2 mm MW	91,40					●						
	30,0	175 ID X 27,0 mm MW	151,60									●		
239,0	20,0	200 ID X 17,5 mm	108,00						●					
240,0	20,0	200 ID X 17,0 mm	106,33							●				
241,8	44,0	241,8 OD X 40,8 mm MW	214,60						●					
242,0	16,0	210 ID X 16,0 mm	89,20						●					
244,5	6,3		37,00		●		●	●	●					
	7,1		41,60		●	●	●	●	●					
	8,0		46,70		●		●	●	●	●				
	8,8		51,20		●		●	●	●					
	10,0		57,80		●		●	●	●					
	11,0		63,30		●		●	●	●	●				
	12,5		71,50		●		●	●	●					
	14,2		80,60		●		●	●	●	●				
16,0		90,20		●		●	●	●						

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OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m	Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoNb9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510
244,5	17,5		98,00		●		●	●	●					
	20,0		111,00		●		●	●	●	●				
	22,2		122,00		●		●	●	●	●			●	
	25,0		135,00		●		●	●	●	●				
	28,0		149,00		●		●	●	●	●				
	30,0		159,00		●		●	●	●	●	●			
	32,0		168,00					●	●	●				
	36,0		185,00		●			●	●	●				
	40,0		202,00					●	●	●				●
	45,0		221,00						●	●				
	50,0		240,00							●				
	55,0		257,00								●			
	65,0		288,00								●			
	250,0	16,0	220 ID X 16,0 mm	92,30					●					
16,0		219 ID X 14,5 mm	92,30					●						
252,0	20,0	212 ID X 20,0 mm	114,40					●						
	36,0	180 ID X 30,0 mm	192,66						●					
253,0	16,0	220 ID X 16,0 mm	93,90					●						
	17,0	220 ID X 16,0 mm	99,40					●						
255,0	17,5	220 ID X 14,2 mm MW	102,50					●						
	18,0	220 ID X 15,0 mm	103,09						●					
	26,0		146,80					●						
256,0	28,0	200 ID X 28,0 mm	157,40										●	
	16,0	225 ID X 16,0 mm	95,10					●		●				
257,0	19,0	220 ID X 16,0 mm MW	111,50						●					
	16,0	225 ID X 16,0 mm	95,50							●				
258,0	19,0	220 ID X 16,0 mm MW	112,00								●			
	21,5	210 ID X 21,5 mm	128,05								●			
263,0	32,0	200 ID X 28,0 mm	183,00										●	
	18,0	230 ID X 14,0 mm MW	109,60									●		
264,0	12,5	241 ID X 11,3 mm MW	78,20									●		

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OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m	Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoVNB9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510
267,0	6,3		40,50		●		●	●	●					
	7,1		45,50		●									
	8,0		51,10		●		●	●		●				
	8,8		56,00		●		●	●	●					
	10,0		63,40		●		●	●						
	11,0		69,40					●		●				
	12,5		88,50		●			●	●					
	14,2		99,00		●			●						
	16,0		108,00		●		●	●						
	17,5		122,00		●			●	●					
	20,0		134,00		●		●	●	●					
	22,2		149,00					●	●	●				
	25,0		165,00		●			●	●		●			
	28,0		175,00					●	●	●				
	30,0		185,00		●			●	●	●				
	32,0		205,00		●				●	●				
	36,0		224,00		●				●					
	40,0		246,00					●	●	●				
	45,0		268,00								●	●		
	65,0		340,00						●					
268,0	26,0	216,1 ID X 22,9 mm	155,20									●		
270,0	9,5	251 ID X 7,9 mm MW	64,10											●
273,0	5,0		33,00	●										
	6,3		41,40	●	●	●	●	●	●					
	7,1		46,60		●		●	●	●					
	8,0		52,30		●	●	●	●	●	●				
	8,8		57,30		●		●	●	●	●				
	10,0		64,90		●	●	●	●	●	●				
	11,0		71,10		●		●	●	●	●				
	12,5		80,30		●	●	●	●	●	●		●		
	14,2		90,60		●		●	●	●	●		●	●	
	16,0		101,00		●		●	●	●	●			●	
	17,5		110,00		●		●	●	●	●			●	
	20,0		125,00		●		●	●	●	●	●	●		
	22,2		137,00		●		●	●	●	●				
	25,0		153,00		●		●	●	●	●	●	●		
	28,0		169,00		●		●	●	●	●	●			
30,0		180,00		●		●	●	●	●					
32,0		190,00				●	●	●	●					
33,0	273 OD X 33,0 mm MW	195,30								●				
36,0		210,00		●		●	●	●	●					

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OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m	Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoNb9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510
273,0	40,0		230,00	●				●	●	●	●			
	45,0		253,00	●				●	●	●				
	48,0		266,00						●					
	50,0		275,00					●	●	●				
	55,0		296,00						●					
	60,0		315,00						●	●				
	70,0		350,00								●			
275,0	32,0	211 ID X 32,0 mm	192,00								●			
277,0	16,0	245 ID X 14,2 mm MW	103,00									●		
280,0	40,0	200 ID X 36,0 mm MW	236,80						●					
281,0	16,0	250 ID X 15,0 mm MW	104,60								●			
283,0	28,0	225 ID X 25,0 mm	176,00						●					
	30,0	225 ID X 25,0 mm	187,20						●					
284,0	17,0	250 ID X 15,0 mm MW	112,00								●			
285,0	35,0	220 ID X 28,0 mm	215,80							●				
288,0	14,0	260 ID X 14,0 mm	94,60										●	
	25,0	240 ID X 25,0 mm	163,30					●						
294,0	45,0	200 ID X 40,0 mm MW	277,00						●					
297,0	36,0	225 ID X 36,0 mm	232,00								●			
298,5	7,1		51,00	●	●		●	●						
	8,0		57,30	●	●		●							
	8,8		62,90		●			●	●					
	10,0		71,10		●		●	●	●					
	11,0		78,00		●									
	12,5		88,20		●			●						
	14,2		99,60		●		●				●			
	16,0		111,00		●		●	●	●	●				
	17,5		121,00		●			●	●					
	20,0		137,00		●			●	●	●				
	22,2		151,00		●			●	●					
	25,0		169,00		●		●	●	●	●				
28,0		187,00		●			●	●	●					

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OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m	Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoVNB9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510
298,5	30,0		199,00		●			●	●	●				
	32,0		210,00						●					
	36,0		233,00					●	●					
	40,0		255,00						●					
	45,0		281,00						●	●				
	50,0		306,00							●				
	55,0		330,00									●		
	60,0		353,00									●	●	
305,0	27,0	250 ID X 24,0 mm	185,10						●					
	28,5	250 ID X 25,0 mm MW	194,30						●					
	67,0	173,5 ID X 59,1 mm	394,00							●				
306,0	18,0	270 ID X 16,0 mm MW	128,00										●	
	28,0	250 ID X 25,0 mm	192,00						●					
307,0	28,0	250 ID X 28,0 mm MW	193,00						●					
310,0	20,0	270 ID X 18,0 mm MW	143,00										●	
311,0	23,0	265 ID X 22,2 mm	163,40								●			
	28,0	255 ID X 28,0 mm	195,40					●						
312,0	36,0	240 ID X 36,0 mm	245,00										●	
315,0	25,0	265 ID X 22,2 mm MW	179,00									●		
	28,0	255 ID X 28,0 mm	199,00								●			
	28,0	260 ID X 25,3 mm MW	198,00									●		
	30,0	255 ID X 28,0 mm	210,90								●		●	
	45,0	225 ID X 45,0 mm	299,00								●			
318,0	27,0	260 ID X 25,3 mm MW	193,80									●		
	30,0		213,00						●					
	34,0	250 ID X 30 mm MW	233,35						●					
318,5	17,4		129,00				●							
319,0	32,0	255 ID X 32,0 mm	226,40						●					
320,0	40,0	240 ID X 40,0 mm	276,00						●					
321,0	13,0	295 ID X 11,0 mm	98,70								●			

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OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m	Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoNb9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510	
323,9	5,6		44,00	●											
	7,1		55,50		●	●	●	●	●	●					
	8,0		62,30	●	●	●	●	●	●	●					
	8,8		68,40		●	●	●	●	●	●					
	10,0		77,40		●		●	●	●	●					
	11,0		84,90		●		●	●	●	●		●			
	12,5		96,00		●	●	●	●	●	●		●			
	14,2		108,00		●		●	●	●	●					
	16,0		121,00		●		●	●	●	●		●			
	17,5		132,00		●		●	●	●	●					
	20,0		150,00		●		●	●	●	●	●	●			
	22,2		165,00		●		●	●	●	●		●			
	25,0		184,00		●		●	●	●	●	●	●			
	28,0		204,00		●		●	●	●	●	●	●	●	●	
	30,0		217,00		●		●	●	●	●	●				
	32,0		230,00		●		●	●	●	●	●				
	34,0		243,00								●				
	36,0		256,00		●		●	●	●	●	●				
	40,0		280,00		●				●	●	●				
	45,0		310,00						●	●	●				
	50,0		338,00						●	●	●				
	55,0		365,00						●	●	●				
	57,2		376,20							●					
	60,0		390,00							●	●				
	332,0	40,0	251 ID X 37,0 MM MW	288,00								●			
		41,6	249 ID X 37,0 mm MW	297,90						●					
333,0	16,0	300 ID X 14,0 mm	122,60							●					
336,0	38,0	260 ID X 38,0 mm	279,30						●						
340,0	10,0	320 ID X 10,0 mm	81,40								●				
	50,0	240 ID X 50,0 mm	357,59								●				
342,0	36,0	270 ID X 36,0 mm	271,67										●		
343,0	24,0	295 ID X 20,0 mm MW	188,80									●			
	41,0	260 ID X 36,0 mm MW	305,36						●						
345,0	20,0	300 ID X 20,0 mm MW	160,30								●				

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OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m	St37.8/ P235GH TC1	St35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	St35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoVNB9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510
355,6	5,6		48,30	●										
	8,0		68,60	●	●	●	●	●	●					
	8,8		75,30		●		●	●	●					
	10,0		85,20		●	●	●	●	●	●	●			
	11,0		93,50		●		●	●	●					
	12,5		106,00		●	●	●	●	●	●				
	14,2		120,00		●		●	●	●	●				
	16,0		134,00		●		●	●	●	●				
	17,5		146,00		●		●	●	●	●				
	20,0		166,00		●		●	●	●	●		●		
	22,2		183,00		●		●	●	●	●				
	25,0		204,00		●		●	●	●	●	●			
	28,0		226,00		●		●	●	●	●		●		
	30,0		241,00		●		●	●	●	●				
	32,0		255,00					●	●	●				
	36,0		284,00		●			●	●	●				
	40,0		311,00					●	●	●				
	45,0		345,00					●	●	●				
	50,0		377,00					●	●	●				
	54,0		408,00						●	●				
55,0		408,00						●	●					
65,0		466,00						●	●					
70,0		493,00						●	●					
360,0	20,0	320 ID X 20,0 mm MW	167,70								●			
	20,0	320 ID X 16,0 mm MW	167,70									●		
361,0	30,5	320 ID X 30,5 mm MW	248,59								●			
363,0	45,0	270 ID X 40,0 mm MW	345,80						●					
366,0	53,0	260 ID X 53,0 mm	409,11						●					
368,0	8,0		71,00		●			●						
	8,8		78,00		●									
	10,0		88,30		●			●	●					
	11,0		96,80		●		●							
	12,5		110,00		●			●	●					
	14,2		124,00		●			●						
	16,0		139,00		●			●	●	●				
	17,5		151,00		●			●		●				
	18,0	332 ID X 18,0 mm	155,40									●		
	20,0		172,00		●			●		●				
22,2		189,00		●		●			●			●		

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OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m	Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoNb9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510
368,0	25,0		211,00		●			●	●	●				
	30,0		235,00		●		●	●		●				
	36,0		295,00						●	●				
	40,0		324,00		●									
	45,0		358,00							●				
	50,0		392,00					●	●					
	55,0		125,00						●	●				
370,0	17,5		152,00					●						
	25,0	320 ID X 23,0 mm MW	213,00									●		
383,0	31,5		273,10									●		
388,0	19,0	350 ID X 15,0 mm MW	173,00									●		
393,0	55,0		458,50							●				
400,0	14,0	372 ID X 12,5 mm MW	133,30								●			
406,4	6,3		62,20	●										
	8,8		86,30		●	●	●	●	●	●				
	10,0		97,80		●	●	●	●		●		●		
	11,0		107,00		●		●	●	●					
	12,5		121,00		●	●	●	●	●	●		●		
	14,2		137,00		●		●	●	●	●	●	●		
	16,0		154,00		●		●	●	●	●				
	17,5		168,00		●		●	●	●	●	●			
	20,0		191,00		●		●	●	●	●				
	22,2		210,00		●		●	●	●	●				
	22,2		210,00		●		●	●	●	●				
	25,0		235,00		●		●	●	●	●				
	26,2		245,60							●				
	28,0		261,00		●					●	●			
	30,0		278,00		●		●	●	●	●	●			
	32,0		295,00						●	●				
	36,0		329,00		●				●	●	●			
	40,0		361,00						●	●	●			
	45,0		401,00						●		●			
	50,0		439,00						●	●	●			
419,0	10,0		101,00		●			●	●					
	11,0		111,00		●									
	12,5		125,00		●			●	●					
	14,2		142,00		●			●						

DIN Boiler Tubes

DIN Kesselrohre

OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m	Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoVNB9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510
419,0	16,0		159,00		●			●						
	17,5		173,00						●	●				
	20,0		197,00		●			●	●					
	25,0		243,00		●			●	●					
	30,0		288,00					●						
	32,0		305,00					●						
	40,0		374,00					●						
	50,0		455,00					●						
442,0	26,0	390 ID X 26,0 mm	266,74						●					
445,0	23,0		239,36						●					
457,0	10,0		110,00		●		●	●	●					
	11,0		121,00						●					
	12,5		137,00		●		●	●	●	●				
	14,2		155,00		●			●	●					
	16,0		174,00		●		●	●	●					
	17,5		190,00		●			●	●	●				
	19,0		216,00								●			
	20,0		205,30		●		●	●	●	●				
	22,2		238,00		●				●					
	25,0		266,00		●			●	●	●				
	28,0		296,00					●		●				
	30,0		316,00		●			●	●	●				
	32,0		335,00							●				
	36,0		374,00					●		●	●			
38,0		393,00					●							
40,0		411,00					●							
45,0		457,00					●	●	●					
504,0	80,0	340 ID X 75,0 mm MW	836,00											●
508,0	6,3		87,70	●										
	11,0		137,00		●	●	●	●	●	●				
	12,5		155,00		●		●	●	●					
	14,2		183,00		●		●	●	●					
	16,0		212,00		●	●	●	●	●	●				
	17,5		212,00		●		●	●	●	●	●	●		
	20,0		241,00		●		●	●	●	●				
	22,2		266,00		●			●						
	25,0		298,00		●			●	●	●				
	28,0		331,00					●	●					
	30,0		355,00		●		●	●	●	●				

DIN Boiler Tubes

DIN Kesselrohre

OD AD mm	Wall Wand mm	Remarks Bemerkungen	kilos/m kg/m	Si37.8/ P235GH TC1	Si35.8/ P235GH TC1	TTS35N / V P215NL / P255QL TC1	Si35.8/III P235GH TC2	15Mo3 16Mo3	13CrMo44 13CrMo4-5	10CrMo910 10CrMo9-10	X20CrMoV121 X20CrMoV11-1	X10CrMoNb9-1	15NiCuMoNb5 15NiCuMoNb5-6-4	15CrMoV510
508,0	40,0		462,00					●		●				
	45,0		514,00					●		●				
	50,0		564,00							●				
	60,0		663,00					●						
559,0	12,5		168,00		●			●	●	●				
	14,2		191,00		●									
	16,0		214,00		●			●		●				
	17,5		234,00		●									
	20,0		266,00		●			●	●	●				
	22,2		294,00					●		●				
	25,0		329,00		●		●	●		●				
	55,0		684,00						●					
610,0	6,3		94,00	●										
	12,5		184,00		●		●	●	●					
	14,2		209,00		●	●	●	●	●					
	16,0		234,00		●		●	●	●					
	17,5		256,00		●			●	●	●				
	20,0		291,00		●		●	●	●					
	22,2		322,00					●		●				
	25,0		361,00		●		●	●	●	●				
	28,0		402,00						●					
	30,0		429,00					●		●				
40,0		562,00						●						
622,0	25,0		368,00				●							
755,0	36,0	680 ID X 33,5 mm MW	638,00								●			
870,0	36,0		741,00							●				



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Comparison Table – Service Temperatures for Boiler and Heatexchanger Tubes
 Vergleichstabelle – Betriebstemperaturen für Kessel und Wärmetauscherrohre

Max. Service Temperature Max. Betriebstemperatur	ASTM (USA)	DIN 17175 (Germany)	BS 3059-3601 3602-3603 3604-3606 (U.K.)	AFNOR NF A 49-213 NF A 49-215 (France)	EN 10216-2 (Europe)	JIS G 3456 G 3458 G 3461 G 3462 (Japan)
- 100° C - 40° C	A 334 Gr. 3 A 334 Gr. 146		503 LT 430 LT	TU 10 N 14 TU 42 BT		
475° C	A 179 A 106 Gr. A A 192	St35.8	320 360	TU 37 C	P235GH	STPT 38 STB 35
	A 106 Gr. B A 210 Gr. A1	St45.8	430	TU 42 C	P265GH	STPT 42 STB 42
	A 106 Gr. C A 210 Gr. C	17Mn4	440	TU 48 C		STPT 49
		19Mn5	500 Nb	TU 52 C		STB 52
500° C		15Mo3	243	TU 15 D 3	16Mo3	
	A 209 T1 A 335 P1	16Mo5 (VD TÜV)	245		16Mo3	STBA 12 STPA 12 STBA 13
550° C	A 213 T2 A 335 P12			TU 15 CD 2.05		STBA 20 STPA 20
560° C	A 213 T12 A 335 P12	13CrMo44	620-460	TU 13 CD 4.04	13CrMo4-5	STBA 22 STPA 22
575° C	A 213 T11 A 335 P11		621	TU 10 CD 5.05		STBA 22 STPA 23
600° C	A 213 T5 A 335 P5 A 213 T22 A 335 P22	12CrMo195 10CrMo910	625 622-490	TU Z 10 CD 05.05 TU Z 12 CD 05.05 TU 10 C 9.10	X11CrMo5 10CrMo9-10	STBA 25 STPA 25 STBA 24 STPA 24
		14MoV63				
625° C	A 213 T9 A 335 P9	X12CrMo91 (VD TÜV)	629-470 629-490	TU Z 10 CD 09	11CrMo9-10	STBA 26 STPA 26
650° C	A 213 T91 A 335 P91	X10CrMoVNb9-1		TU Z 10 CDVNb 09.01 TU Z 10 CDNbV 09.02	X10CrMoVNb9-1	

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Comparison Table – International Standards
Vergleichstabelle – Internationale Normen

Steel No.	DIN	Grade	EN	Grade	ASTM	Grade	NFA	Grade	BS	Grade
1.0305	17175	S135.8	EN 10216-2	P235GH	A 106	A	49213	TU 37 C	3059: Part 2	360
	17175	S145.8	EN 10216-2	P265GH	A 106	B	49213	TU 42 C	3602: Part 1	360
1.0405	17175	S145.8	EN 10216-2	P265GH	A 106	B	49213	TU 42 C	3059: Part 2	440
	17175	S145.8	EN 10216-2	P265GH	A 106	B	49213	TU 42 C	3602: Part 1	430
1.5415	17175	15Mo3	EN 10216-2	16Mo3	A 335	P1	49213	TU 15 D 3	3059: Part 2	243
	17175	16Mo3	EN 10216-2	16Mo3	A 335	P1	49213	TU 15 D 3	3606	245
1.7335	17175	13CrMo44	EN 10216-2	13CrMo4-5	A 335	P12	49213	TU 13 CD 4.04	3059: Part 2	620
	17175	13CrMo44	EN 10216-2	13CrMo4-5	A 335	P12	49213	TU 13 CD 4.04	3604	620
1.7380	17175	10CrMo910	EN 10216-2	10CrMo9-10	A 335	P11	49213	TU 10 CD 5.05	3604	621
	17175	10CrMo910	EN 10216-2	10CrMo9-10	A 335	P11	49213	TU 10 CD 5.05	3606	621
1.7362	17176	12CrMo195	EN 10216-2	X11CrMo5	A 335	P5	49213	TU Z 10 CD 9.10	3059: Part 2	622-440
	17176	12CrMo195	EN 10216-2	X11CrMo5	A 335	P5	49213	TU Z 10 CD 9.10	3059: Part 2	622-490
1.7362	17176	X12CrMo5	EN 10216-2	X11CrMo5	A 335	P5	49213	TU Z 12 CD 05-05	3604	622
	17176	X12CrMo5	EN 10216-2	X11CrMo5	A 335	P5	49213	TU Z 12 CD 05-05	3604	625
1.7386	17176	X12CrMo9-1	EN 10216-2	11CrMo9-10	A 335	P9	49213	TU Z 10 CD 09	3059: Part 2	629-590
	17176	X12CrMo9-1	EN 10216-2	11CrMo9-10	A 335	P9	49213	TU Z 10 CD 09	3604	629-590
1.4922	17175	X20CrMoV12-1	EN 10216-2	X20CrMoV11-1	A 335	P91	49213	TU Z 10 CDWnb 09.01	3059: Part 2	762
	17175	X20CrMoV12-1	EN 10216-2	X20CrMoV11-1	A 335	P91	49213	TU Z 10 CDWnb 09.01	3604	762
1.4903	17175	X10CrMoVnb9-1	EN 10216-2	X10CrMoVnb9-1	A 335	P91	49213	TU Z 10 CDWnb 09.01	3059: Part 2	91
	17173	TTS135NV	EN 10216-4	P215NL / P255QL	A 333	1	49213	TU Z 10 CDWnb 09.01	3059: Part 2	91
1.5637	17173	10Ni14	EN 10222-3	12Ni14	A 333	6	49215	TU 42 BT	3603: 1991	430 LT
	17456/58	X5CrNi1810	EN 10216-5	X5CrNi18-10	A 213 / A 312	3	49215	TU 10 N 14	3603: 1991	503 LT
1.4301	17456/58	X5CrNi1810	EN 10216-5	X5CrNi18-10	A 213 / A 312	TP 304	49117	Z 6 CN 18.09	3605	304 S 31
	17456/58	X2CrNi1911	EN 10216-5	X2CrNi19-11	A 213 / A 312	TP 304 L	49117	Z 2 CN 18.10	3605	304 S 11
1.4401	17456/58	X5CrNiMo17122	EN 10216-5	X5CrNiMo17-12-2	A 213 / A 312	TP 316	49117	Z 6 CND 17.11	3605	316 S 31
	17456/58	X2CrNiMo17132	EN 10216-5	X2CrNiMo17-12-2	A 213 / A 312	TP 316 LN	49117	Z 2 CND 17.12	3605	316 S 11
1.4404	17456/58	X2CrNiMo17132	EN 10216-5	X2CrNiMo17-12-2	A 213 / A 312	TP 316 LN	49117	Z 2 CND 17.12	3605	316 S 11
	17456/58	X2CrNiMo18143	EN 10216-5	X2CrNiMo18-14-3	A 213 / A 312	TP 316 LN	35572	Z 2 CND 17.13	3606	316 S 13
1.4435	17456/58	X2CrNiMo18143	EN 10216-5	X2CrNiMo18-14-3	A 213 / A 312	TP 316 LN	35572	Z 2 CND 17.13	3606	316 S 13
	17456/58	X5CrNiMo17133	EN 10216-5	X3CrNiMo17-13-3	A 213 / A 312	TP 316	35572	Z 6 CND 17.12	3606	316 S 33
1.4436	17456/58	X5CrNiMo17133	EN 10216-5	X3CrNiMo17-13-3	A 213 / A 312	TP 316	35572	Z 6 CND 17.12	3606	316 S 33
	17456/58	X2CrNiMoN17135	EN 10216-5	X2CrNiMoN17-13-5	A 213 / A 312	TP 321	35584	Z 2 CNDU 17.16	3605	321 S 31
1.4541	17456/58	X6CrNiTi1810	EN 10216-5	X6CrNiTi18-10	A 213 / A 312	TP 321	49117	Z 6 CNT 18.10	3605	321 S 31
	17456/58	X6CrNiNb1810	EN 10216-5	X6CrNiNb18-10	A 213 / A 312	TP 347	35572	Z 6 CND 18.10	3605	347 S 31
1.4571	17456/58	X6CrNiMoTi17122	EN 10216-5	X6CrNiMoTi17-12-2	A 213 / A 312	TP 316 Ti	49117	Z 6 CNDT 17.12	970/4	320 S 17
	17456/58	X6CrNiMoTi17122	EN 10216-5	X6CrNiMoTi17-12-2	A 213 / A 312	TP 316 Ti	49117	Z 6 CNDT 17.12	970/4	320 S 17

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Wall Thicknesses and Weights Wandstärken und Gewichte

Nominal Pipe Size	Outside Dia- meter	ANSI B 36.10												ANSI B 36.19																											
		Schedule 10	Schedule 20	Schedule 30	Schedule STD	Schedule 40	Schedule 60	Schedule XS	Schedule 80	Schedule 100	Schedule 120	Schedule 140	Schedule 160	Schedule XKS	Schedule 5S	Schedule 10S	Schedule 40S	Schedule 80S																							
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm																						
		kg/m	kg/m	kg/m	kg/m	kg/m	kg/m	kg/m	kg/m	kg/m	kg/m	kg/m	kg/m	kg/m	kg/m	kg/m	kg/m	kg/m	kg/m																						
1/4"	13.7				2.24	0.63	2.24	0.63	3.02	0.80	3.02	0.80				1.65	0.50	2.24	0.64	3.02	0.81																				
3/8"	17.1				2.31	0.84	2.31	0.84	3.20	1.10	3.20	1.10				1.65	0.64	2.31	0.86	3.20	1.12																				
1/2"	21.3				2.77	1.27	2.77	1.27	3.73	1.62	3.73	1.62			4.78	1.95	7.47	2.55	1.65	0.81	2.11	1.02	2.77	1.29	3.73	1.65															
3/4"	26.7				2.87	1.69	2.87	1.69	3.91	2.20	3.91	2.20			5.56	2.90	7.82	3.64	1.65	1.03	2.11	1.30	2.87	1.71	3.91	2.23															
1"	33.4				3.38	2.50	3.38	2.50	4.55	3.24	4.55	3.24			6.35	4.24	9.09	5.45	1.65	1.31	2.77	2.13	3.38	2.54	4.55	3.29															
1 1/4"	42.2				3.56	3.39	3.56	3.39	4.85	4.47	4.85	4.47			6.35	5.61	9.70	7.77	1.65	1.68	2.77	2.73	3.56	3.44	4.85	4.53															
1 1/2"	48.3				3.68	4.05	3.68	4.05	5.08	5.41	5.08	5.41			7.14	7.25	10.15	9.56	1.65	1.93	2.77	3.16	3.68	4.11	5.08	5.49															
2"	60.3				3.91	5.44	3.91	5.44	5.54	7.48	5.54	7.48			8.74	11.11	11.07	13.44	1.65	2.42	2.77	3.99	3.91	5.52	5.54	7.60															
2 1/2"	73.0				5.16	8.63	5.16	8.63	7.01	11.41	7.01	11.41			9.53	14.92	14.02	20.39	2.11	3.75	3.05	5.35	5.16	8.77	7.01	11.59															
3"	88.9				5.49	11.29	5.49	11.29	7.62	15.27	7.62	15.27			11.13	21.35	15.24	27.68	2.11	4.59	3.05	6.56	5.49	11.47	7.62	15.51															
3 1/2"	101.6				5.74	13.57	5.74	13.57	8.08	18.63	8.08	18.63							2.11	5.26	3.05	7.53	5.74	13.78	8.08	18.92															
4"	114.3				6.02	16.07	6.02	16.07	8.56	22.32	8.56	22.32			13.49	33.54	17.12	41.03	2.11	5.93	3.05	8.50	6.02	16.32	8.56	22.67															
5"	141.3				6.55	21.77	6.55	21.77	9.53	30.97	9.53	30.97			15.88	49.11	19.05	57.43	2.77	9.61	3.40	11.74	6.55	22.10	9.53	31.44															
6"	168.3				7.11	28.26	7.11	28.26	10.97	42.56	10.97	42.56			18.26	67.56	21.95	79.22	2.77	11.48	3.40	14.04	7.11	28.70	10.97	43.22															
8"	218.1				6.35	33.31	7.04	36.81	8.18	42.55	10.31	53.08	12.70	64.64	15.09	75.92	18.26	90.44	20.62	100.90	23.01	111.20	22.23	107.90	2.77	14.90	3.80	20.12	8.18	43.20	12.70	65.64									
10"	273.0				6.35	41.77	7.80	51.03	9.27	60.31	9.27	60.31	12.70	81.55	12.70	81.55	15.09	96.01	18.26	114.70	21.44	135.00	25.40	155.10	3.40	22.95	4.19	28.20	9.27	61.22	12.70	82.78									
12"	323.8				6.35	49.73	8.38	65.20	9.53	73.88	10.31	79.73	14.27	108.90	12.70	97.46	17.48	132.00	21.44	159.90	25.40	186.90	33.32	238.70	25.40	186.90	3.96	31.71	4.57	36.53	9.53	74.94	12.70	98.96							
14"	355.6				6.35	54.69	7.92	67.90	9.53	81.33	9.53	81.33	11.13	94.55	15.09	126.70	12.70	107.30	19.05	158.10	23.83	194.90	27.79	224.60	31.75	253.50	35.71	281.70		3.96	34.87	4.78	41.99	9.53	82.50	12.70	109.05				
16"	406.4				6.35	62.64	7.92	77.83	9.53	93.27	9.53	93.27	12.70	123.30	16.66	160.10	12.70	123.30	21.44	203.50	26.19	245.50	30.96	286.60	36.53	333.10	40.49	365.30		4.19	42.20	4.78	48.07	9.53	94.61	12.70	125.20				
18"	457.2				6.35	70.57	7.92	87.71	11.13	122.30	9.53	105.10	14.27	155.80	19.05	205.70	12.70	139.10	23.83	254.50	29.36	309.60	34.93	363.50	39.67	408.20	45.74	459.30		4.19	47.53	4.78	54.15	9.53	106.83	12.70	141.35				
20"	508.0				6.35	78.55	9.53	117.10	12.70	155.10	9.53	117.10	15.09	183.40	20.62	247.80	12.70	155.10	26.19	311.10	32.54	381.50	38.10	441.40	44.45	508.10	50.01	564.80		4.78	60.23	5.54	69.70	9.53	118.95	12.70	157.51				
22"	558.8				6.35	86.54	9.53	129.10	12.70	171.00	9.53	129.10			22.23	294.20	12.70	171.00	28.58	373.80	34.93	451.40	41.28	527.00	47.63	600.60	53.90	672.20		4.78	66.31	5.54	76.75	9.53	131.07	12.70	173.66				
24"	609.6				6.35	94.53	9.53	141.10	14.27	209.60	9.53	141.10	17.48	255.40	24.61	355.20	12.70	187.00	30.96	442.00	38.89	547.70	46.02	640.00	52.37	720.10	59.54	808.20		5.54	83.80	6.35	95.92	9.53	143.20	12.70	189.82				
26"	660.4				7.92	127.30	12.70	202.70									12.70	202.70																							
28"	711.2				7.92	137.30	12.70	218.60	15.88	271.20	9.53	164.80																													
30"	762.0				7.92	147.20	12.70	234.60	15.88	291.10	9.53	176.80																													
32"	812.8				7.92	157.20	12.70	250.60	15.88	312.10	9.53	188.80	17.48	342.90																											
34"	863.6				7.92	167.20	12.70	266.60	15.88	332.10	9.53	200.30	17.48	364.90																											
36"	914.4				7.92	176.90	12.70	282.20	15.88	351.70	9.53	212.50	19.05	420.40																											

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