



Cutting depth Standard Type Point angle Tolerance on Ø Web Thinning Shank form Cutting direction

Tool material

HSS

Surface



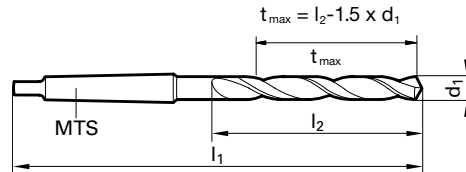
P	Steel	●
M	Stainless steel	
K	Cast iron	●
N	Aluminum	○
S	Titanium alloys	
H	Hardened steel	

●=Optimal

○=Limited

web thinning $\geq \varnothing 14.050 \cdot$ relieved cone

alloyed/unalloyed steel and cast steel • grey cast iron, malleable and spheroidal iron • sintered powder metal, German silver and graphite



Speeds and feeds information on pg. 501

Morse Taper Length

Diameter (d ₁)			Shank Size	l ₁ mm	t _{max} mm	l ₂ mm	EDP #
inch	wire/ltr	mm					
0.0937	3/32	2.38	MTS 1	111.00	26.43	30.00	9002450023800
0.0984		2.50	MTS 1	111.00	26.25	30.00	9002450025000
0.1094	7/64	2.78	MTS 1	114.00	28.83	33.00	9002450027800
0.1248	1/8	3.17	MTS 1	117.00	31.25	36.00	9002450031700
0.1406	9/64	3.57	MTS 1	120.00	33.65	39.00	9002450035700
0.1496	#28	3.80	MTS 1	124.00	37.30	43.00	9002450038000
	#25	3.97	MTS 1	124.00	37.05	43.00	9002450039700
0.1563	5/32	4.00	MTS 1	124.00	37.00	43.00	9002450040000
0.1575		4.25	MTS 1	124.00	36.63	43.00	9002450042500
0.1673		4.37	MTS 1	128.00	40.45	47.00	9002450043700
0.1720	11/64	4.50	MTS 1	128.00	40.25	47.00	9002450045000
0.1772	#16	4.76	MTS 1	133.00	44.86	52.00	9002450047600
0.1874	3/16	5.00	MTS 1	133.00	44.50	52.00	9002450050000
0.1969		5.10	MTS 1	133.00	44.35	52.00	9002450051000
0.2008		5.16	MTS 1	133.00	44.26	52.00	9002450051600
0.2031	13/64	5.20	MTS 1	133.00	44.20	52.00	9002450052000
0.2047		5.25	MTS 1	133.00	44.13	52.00	9002450052500
0.2067		5.30	MTS 1	133.00	44.05	52.00	9002450053000
0.2087		5.40	MTS 1	138.00	48.90	57.00	9002450054000
0.2126		5.50	MTS 1	138.00	48.75	57.00	9002450055000
0.2165		5.56	MTS 1	138.00	48.66	57.00	9002450055600
0.2189	7/32	5.60	MTS 1	138.00	48.60	57.00	9002450056000
0.2205		5.70	MTS 1	138.00	48.45	57.00	9002450057000
0.2244		5.75	MTS 1	138.00	48.38	57.00	9002450057500
0.2264		5.80	MTS 1	138.00	48.30	57.00	9002450058000
0.2283		5.90	MTS 1	138.00	48.15	57.00	9002450059000
0.2323		5.95	MTS 1	138.00	48.08	57.00	9002450059500
0.2343	15/64	6.00	MTS 1	138.00	48.00	57.00	9002450060000
0.2362		6.10	MTS 1	144.00	53.85	63.00	9002450061000
0.2402		6.20	MTS 1	144.00	53.70	63.00	9002450062000
0.2441		6.25	MTS 1	144.00	53.63	63.00	9002450062500
0.2461	D	6.30	MTS 1	144.00	53.55	63.00	9002450063000
0.2480		6.35	MTS 1	144.00	53.48	63.00	9002450063500
0.2500	1/4	6.40	MTS 1	144.00	53.40	63.00	9002450064000
0.2520		6.50	MTS 1	144.00	53.25	63.00	9002450065000
0.2559		6.60	MTS 1	144.00	53.10	63.00	9002450066000
0.2598		6.70	MTS 1	144.00	52.95	63.00	9002450067000
0.2638		6.75	MTS 1	150.00	58.88	69.00	9002450067500
0.2657	17/64	6.80	MTS 1	150.00	58.80	69.00	9002450068000
0.2677		6.90	MTS 1	150.00	58.65	69.00	9002450069000
0.2717	I	7.00	MTS 1	150.00	58.50	69.00	9002450070000
0.2756		7.14	MTS 1	150.00	58.29	69.00	9002450071400
0.2811	9/32	7.20	MTS 1	150.00	58.20	69.00	9002450072000
0.2835							

Diameter (d ₁)			Shank Size	l ₁ mm	t _{max} mm	l ₂ mm	EDP #
inch	wire/ltr	mm					
0.2854		7.25	MTS 1	150.00	58.13	69.00	9002450072500
0.2874		7.30	MTS 1	150.00	58.05	69.00	9002450073000
0.2913		7.40	MTS 1	150.00	57.90	69.00	9002450074000
0.2953		7.50	MTS 1	150.00	57.75	69.00	9002450075000
0.2969	19/64	7.54	MTS 1	156.00	63.69	75.00	9002450075400
0.2992		7.60	MTS 1	156.00	63.60	75.00	9002450076000
0.3031		7.70	MTS 1	156.00	63.45	75.00	9002450077000
0.3051		7.75	MTS 1	156.00	63.38	75.00	9002450077500
0.3071		7.80	MTS 1	156.00	63.30	75.00	9002450078000
0.3110		7.90	MTS 1	156.00	63.15	75.00	9002450079000
0.3126	5/16	7.94	MTS 1	156.00	63.09	75.00	9002450079400
0.3150		8.00	MTS 1	156.00	63.00	75.00	9002450080000
0.3189		8.10	MTS 1	156.00	62.85	75.00	9002450081000
0.3228	P	8.20	MTS 1	156.00	62.70	75.00	9002450082000
0.3248		8.25	MTS 1	156.00	62.63	75.00	9002450082500
0.3268		8.30	MTS 1	156.00	62.55	75.00	9002450083000
0.3280	21/64	8.33	MTS 1	156.00	62.51	75.00	9002450083300
0.3307		8.40	MTS 1	156.00	62.40	75.00	9002450084000
0.3346		8.50	MTS 1	156.00	62.25	75.00	9002450085000
0.3386		8.60	MTS 1	162.00	68.10	81.00	9002450086000
0.3425		8.70	MTS 1	162.00	67.95	81.00	9002450087000
0.3437	11/32	8.73	MTS 1	162.00	67.91	81.00	9002450087300
0.3445		8.75	MTS 1	162.00	67.88	81.00	9002450087500
0.3465		8.80	MTS 1	162.00	67.80	81.00	9002450088000
0.3504		8.90	MTS 1	162.00	67.65	81.00	9002450089000
0.3543		9.00	MTS 1	162.00	67.50	81.00	9002450090000
0.3583		9.10	MTS 1	162.00	67.35	81.00	9002450091000
0.3594	23/64	9.13	MTS 1	162.00	67.31	81.00	9002450091300
0.3622		9.20	MTS 1	162.00	67.20	81.00	9002450092000
0.3642		9.25	MTS 1	162.00	67.13	81.00	9002450092500
0.3661		9.30	MTS 1	162.00	67.05	81.00	9002450093000
0.3701		9.40	MTS 1	162.00	66.90	81.00	9002450094000
0.3740		9.50	MTS 1	162.00	66.75	81.00	9002450095000
0.3748	3/8	9.52	MTS 1	168.00	72.72	87.00	9002450095200
0.3819		9.70	MTS 1	168.00	72.45	87.00	9002450097000
0.3839		9.75	MTS 1	168.00	72.38	87.00	9002450097500
0.3858	W	9.80	MTS 1	168.00	72.30	87.00	9002450098000
0.3898		9.90	MTS 1	168.00	72.15	87.00	9002450099000
0.3906	25/64	9.92	MTS 1	168.00	72.12	87.00	9002450099200
0.3937		10.00	MTS 1	168.00	72.00	87.00	9002450100000
0.3976		10.10	MTS 1	168.00	71.85	87.00	9002450101000
0.4016		10.20	MTS 1	168.00	71.70	87.00	9002450102000
0.4035		10.25	MTS 1	168.00	71.63	87.00	9002450102500

Diameter (d ₁)			Shank Size	l ₁ mm	t _{max} mm	l ₂ mm	EDP #
inch	wire/ltr	mm					
0.4055		10.30	MTS 1	168.00	71.55	87.00	9002450103000
0.4063	13/32	10.32	MTS 1	168.00	71.52	87.00	9002450103200
0.4094		10.40	MTS 1	168.00	71.40	87.00	9002450104000
0.4134		10.50	MTS 1	168.00	71.25	87.00	9002450105000
0.4173		10.60	MTS 1	168.00	71.10	87.00	9002450106000
0.4213		10.70	MTS 1	175.00	77.95	94.00	9002450107000
0.4220	27/64	10.72	MTS 1	175.00	77.92	94.00	9002450107200
0.4232		10.75	MTS 1	175.00	77.88	94.00	9002450107500
0.4252		10.80	MTS 1	175.00	77.80	94.00	9002450108000
0.4291		10.90	MTS 1	175.00	77.65	94.00	9002450109000
0.4331		11.00	MTS 1	175.00	77.50	94.00	9002450110000
0.4370		11.10	MTS 1	175.00	77.35	94.00	9002450111000
0.4374	7/16	11.11	MTS 1	175.00	77.34	94.00	9002450111100
0.4409		11.20	MTS 1	175.00	77.20	94.00	9002450112000
0.4429		11.25	MTS 1	175.00	77.13	94.00	9002450112500
0.4449		11.30	MTS 1	175.00	77.05	94.00	9002450113000
0.4488		11.40	MTS 1	175.00	76.90	94.00	9002450114000
0.4528		11.50	MTS 1	175.00	76.75	94.00	9002450115000
0.4531	29/64	11.51	MTS 1	175.00	76.74	94.00	9002450115100
0.4567		11.60	MTS 1	175.00	76.60	94.00	9002450116000
0.4606		11.70	MTS 1	175.00	76.45	94.00	9002450117000
0.4626		11.75	MTS 1	175.00	76.38	94.00	9002450117500
0.4646		11.80	MTS 1	175.00	76.30	94.00	9002450118000
0.4685		11.90	MTS 1	182.00	83.15	101.00	9002450119000
0.4689	15/32	11.91	MTS 1	182.00	83.14	101.00	9002450119100
0.4724		12.00	MTS 1	182.00	83.00	101.00	9002450120000
0.4764		12.10	MTS 1	182.00	82.85	101.00	9002450121000
0.4803		12.20	MTS 1	182.00	82.70	101.00	9002450122000
0.4823		12.25	MTS 1	182.00	82.63	101.00	9002450122500
0.4843	31/64	12.30	MTS 1	182.00	82.55	101.00	9002450123000
0.4882		12.40	MTS 1	182.00	82.40	101.00	9002450124000
0.4921		12.50	MTS 1	182.00	82.25	101.00	9002450125000
0.4961		12.60	MTS 1	182.00	82.10	101.00	9002450126000
0.5000	1/2	12.70	MTS 1	182.00	81.95	101.00	9002450127000
0.5020		12.75	MTS 1	182.00	81.88	101.00	9002450127500
0.5039		12.80	MTS 1	182.00	81.80	101.00	9002450128000
0.5059		12.85	MTS 1	182.00	81.73	101.00	9002450128500
0.5079		12.90	MTS 1	182.00	81.65	101.00	9002450129000
0.5118		13.00	MTS 1	182.00	81.50	101.00	9002450130000
0.5157	33/64	13.10	MTS 1	182.00	81.35	101.00	9002450131000
0.5197		13.20	MTS 1	182.00	81.20	101.00	9002450132000
0.5217		13.25	MTS 1	189.00	88.13	108.00	9002450132500
0.5236		13.30	MTS 1	189.00	88.05	108.00	9002450133000
0.5276		13.40	MTS 1	189.00	87.90	108.00	9002450134000
0.5311	17/32	13.49	MTS 1	189.00	87.77	108.00	9002450134900
0.5315		13.50	MTS 1	189.00	87.75	108.00	9002450135000
0.5354		13.60	MTS 1	189.00	87.60	108.00	9002450136000
0.5394		13.70	MTS 1	189.00	87.45	108.00	9002450137000
0.5413		13.75	MTS 1	189.00	87.38	108.00	9002450137500
0.5433		13.80	MTS 1	189.00	87.30	108.00	9002450138000
0.5469	35/64	13.89	MTS 1	189.00	87.17	108.00	9002450138900
0.5472		13.90	MTS 1	189.00	87.15	108.00	9002450139000
0.5512		14.00	MTS 1	189.00	87.00	108.00	9002450140000
0.5551		14.10	MTS 2	212.00	92.85	114.00	9002450141000
0.5591		14.20	MTS 2	212.00	92.70	114.00	9002450142000
0.5610		14.25	MTS 2	212.00	92.63	114.00	9002450142500
0.5626	9/16	14.29	MTS 2	212.00	92.57	114.00	9002450142900
0.5630		14.30	MTS 2	212.00	92.55	114.00	9002450143000
0.5669		14.40	MTS 2	212.00	92.40	114.00	9002450144000
0.5709		14.50	MTS 2	212.00	92.25	114.00	9002450145000
0.5748		14.60	MTS 2	212.00	92.10	114.00	9002450146000
0.5780	37/64	14.68	MTS 2	212.00	91.98	114.00	9002450146800
0.5787		14.70	MTS 2	212.00	91.95	114.00	9002450147000
0.5807		14.75	MTS 2	212.00	91.88	114.00	9002450147500
0.5827		14.80	MTS 2	212.00	91.80	114.00	9002450148000
0.5866		14.90	MTS 2	212.00	91.65	114.00	9002450149000

Diameter (d ₁)			Shank Size	l ₁ mm	t _{max} mm	l ₂ mm	EDP #
inch	wire/ltr	mm					
0.5906	19/32	15.00	MTS 2	212.00	91.50	114.00	9002450150000
0.5937		15.08	MTS 2	218.00	97.38	120.00	9002450150800
0.5945		15.10	MTS 2	218.00	97.35	120.00	9002450151000
0.5984		15.20	MTS 2	218.00	97.20	120.00	9002450152000
0.6004	39/64	15.25	MTS 2	218.00	97.13	120.00	9002450152500
0.6024		15.30	MTS 2	218.00	97.05	120.00	9002450153000
0.6063		15.40	MTS 2	218.00	96.90	120.00	9002450154000
0.6094		15.48	MTS 2	218.00	96.78	120.00	9002450154800
0.6102	5/8	15.50	MTS 2	218.00	96.75	120.00	9002450155000
0.6142		15.60	MTS 2	218.00	96.60	120.00	9002450156000
0.6181		15.70	MTS 2	218.00	96.45	120.00	9002450157000
0.6201		15.75	MTS 2	218.00	96.38	120.00	9002450157500
0.6220	21/32	15.80	MTS 2	218.00	96.30	120.00	9002450158000
0.6248		15.87	MTS 2	218.00	96.20	120.00	9002450158700
0.6260		15.90	MTS 2	218.00	96.15	120.00	9002450159000
0.6299		16.00	MTS 2	218.00	96.00	120.00	9002450160000
0.6319	41/64	16.05	MTS 2	223.00	100.93	125.00	9002450160500
0.6339		16.10	MTS 2	223.00	100.85	125.00	9002450161000
0.6378		16.20	MTS 2	223.00	100.70	125.00	9002450162000
0.6398		16.25	MTS 2	223.00	100.63	125.00	9002450162500
0.6406	23/32	16.27	MTS 2	223.00	100.60	125.00	9002450162700
0.6417		16.30	MTS 2	223.00	100.55	125.00	9002450163000
0.6457		16.40	MTS 2	223.00	100.40	125.00	9002450164000
0.6496		16.50	MTS 2	223.00	100.25	125.00	9002450165000
0.6535	43/64	16.60	MTS 2	223.00	100.10	125.00	9002450166000
0.6563		16.67	MTS 2	223.00	100.00	125.00	9002450166700
0.6575		16.70	MTS 2	223.00	99.95	125.00	9002450167000
0.6594		16.75	MTS 2	223.00	99.88	125.00	9002450167500
0.6614	11/16	16.80	MTS 2	223.00	99.80	125.00	9002450168000
0.6654		16.90	MTS 2	223.00	99.65	125.00	9002450169000
0.6693		17.00	MTS 2	223.00	99.50	125.00	9002450170000
0.6720		17.07	MTS 2	228.00	104.40	130.00	9002450170700
0.6732	45/64	17.10	MTS 2	228.00	104.35	130.00	9002450171000
0.6772		17.20	MTS 2	228.00	104.20	130.00	9002450172000
0.6791		17.25	MTS 2	228.00	104.13	130.00	9002450172500
0.6811		17.30	MTS 2	228.00	104.05	130.00	9002450173000
0.6850	23/32	17.40	MTS 2	228.00	103.90	130.00	9002450174000
0.6874		17.46	MTS 2	228.00	103.81	130.00	9002450174600
0.6890		17.50	MTS 2	228.00	103.75	130.00	9002450175000
0.6929		17.60	MTS 2	228.00	103.60	130.00	9002450176000
0.6969	47/64	17.70	MTS 2	228.00	103.45	130.00	9002450177000
0.6988		17.75	MTS 2	228.00	103.38	130.00	9002450177500
0.7008		17.80	MTS 2	228.00	103.30	130.00	9002450178000
0.7031		17.86	MTS 2	228.00	103.21	130.00	9002450178600
0.7047	23/32	17.90	MTS 2	228.00	103.15	130.00	9002450179000
0.7087		18.00	MTS 2	228.00	103.00	130.00	9002450180000
0.7126		18.10	MTS 2	233.00	107.85	135.00	9002450181000
0.7165		18.20	MTS 2	233.00	107.70	135.00	9002450182000
0.7185	49/64	18.25	MTS 2	233.00	107.63	135.00	9002450182500
0.7189		18.26	MTS 2	233.00	107.61	135.00	9002450182600
0.7205		18.30	MTS 2	233.00	107.55	135.00	9002450183000
0.7283		18.50	MTS 2	233.00	107.25	135.00	9002450185000
0.7323	3/4	18.60	MTS 2	233.00	107.10	135.00	9002450186000
0.7343		18.65	MTS 2	233.00	107.03	135.00	9002450186500
0.7382		18.75	MTS 2	233.00	106.88	135.00	9002450187500
0.7402		18.80	MTS 2	233.00	106.80	135.00	9002450188000
0.7441	49/64	18.90	MTS 2	233.00	106.65	135.00	9002450189000
0.7480		19.00	MTS 2	233.00	106.50	135.00	9002450190000
0.7500		19.05	MTS 2	238.00	111.43	140.00	9002450190500
0.7520		19.10	MTS 2	238.00	111.35	140.00	9002450191000
0.7559	49/64	19.20	MTS 2	238.00	111.20	140.00	9002450192000
0.7579		19.25	MTS 2	238.00	111.13	140.00	9002450192500
0.7657		19.45	MTS 2	238.00	110.83	140.00	9002450194500
0.7677		19.50	MTS 2	238.00	110.75	140.00	9002450195000
0.7717	49/64	19.60	MTS 2	238.00	110.60	140.00	9002450196000
0.7756		19.70	MTS 2	238.00	110.45	140.00	9002450197000

Diameter (d ₁)		Shank Size	l ₁ mm	t _{max} mm	l ₂ mm	EDP #
inch	wire/ltr					
0.7776		MTS 2	238.00	110.38	140.00	9002450197500
0.7795		MTS 2	238.00	110.30	140.00	9002450198000
0.7811	25/32	MTS 2	238.00	110.24	140.00	9002450198400
0.7835		MTS 2	238.00	110.15	140.00	9002450199000
0.7874		MTS 2	238.00	110.00	140.00	9002450200000
0.7913		MTS 2	243.00	114.85	145.00	9002450201000
0.7953		MTS 2	243.00	114.70	145.00	9002450202000
0.7969	51/64	MTS 2	243.00	114.64	145.00	9002450202400
0.7972		MTS 2	243.00	114.63	145.00	9002450202500
0.7992		MTS 2	243.00	114.55	145.00	9002450203000
0.8031		MTS 2	243.00	114.40	145.00	9002450204000
0.8071		MTS 2	243.00	114.25	145.00	9002450205000
0.8110		MTS 2	243.00	114.10	145.00	9002450206000
0.8126	13/16	MTS 2	243.00	114.04	145.00	9002450206400
0.8150		MTS 2	243.00	113.95	145.00	9002450207000
0.8169		MTS 2	243.00	113.88	145.00	9002450207500
0.8189		MTS 2	243.00	113.80	145.00	9002450208000
0.8268		MTS 2	243.00	113.50	145.00	9002450210000
0.8280	53/64	MTS 2	243.00	113.46	145.00	9002450210300
0.8307		MTS 2	243.00	113.35	145.00	9002450211000
0.8346		MTS 2	243.00	113.20	145.00	9002450212000
0.8366		MTS 2	248.00	118.13	150.00	9002450212500
0.8425		MTS 2	248.00	117.90	150.00	9002450214000
0.8437	27/32	MTS 2	248.00	117.86	150.00	9002450214300
0.8465		MTS 2	248.00	117.75	150.00	9002450215000
0.8543		MTS 2	248.00	117.45	150.00	9002450217000
0.8563		MTS 2	248.00	117.38	150.00	9002450217500
0.8594	55/64	MTS 2	248.00	117.26	150.00	9002450218300
0.8661		MTS 2	248.00	117.00	150.00	9002450220000
0.8701		MTS 2	248.00	116.85	150.00	9002450221000
0.8740		MTS 2	248.00	116.70	150.00	9002450222000
0.8748	7/8	MTS 2	248.00	116.67	150.00	9002450222200
0.8760		MTS 2	248.00	116.63	150.00	9002450222500
0.8780		MTS 2	248.00	116.55	150.00	9002450223000
0.8819		MTS 2	248.00	116.40	150.00	9002450224000
0.8858		MTS 2	253.00	121.25	155.00	9002450225000
0.8906	57/64	MTS 2	253.00	121.07	155.00	9002450226200
0.8957		MTS 2	253.00	120.88	155.00	9002450227500
0.9055		MTS 2	253.00	120.50	155.00	9002450230000
0.9063	29/32	MTS 2	253.00	120.47	155.00	9002450230200
0.9154		MTS 3	276.00	120.13	155.00	9002450232500
0.9220	59/64	MTS 3	276.00	119.87	155.00	9002450234200
0.9252		MTS 3	276.00	119.75	155.00	9002450235000
0.9350		MTS 3	281.00	124.38	160.00	9002450237500
0.9374	15/16	MTS 3	281.00	124.29	160.00	9002450238100
0.9449		MTS 3	281.00	124.00	160.00	9002450240000
0.9531	61/64	MTS 3	281.00	123.69	160.00	9002450242100
0.9547		MTS 3	281.00	123.63	160.00	9002450242500
0.9567		MTS 3	281.00	123.55	160.00	9002450243000
0.9646		MTS 3	281.00	123.25	160.00	9002450245000
0.9689	31/32	MTS 3	281.00	123.09	160.00	9002450246100
0.9744		MTS 3	281.00	122.88	160.00	9002450247500
0.9843	63/64	MTS 3	281.00	122.50	160.00	9002450250000
0.9941		MTS 3	286.00	127.13	165.00	9002450252500
1.0000	1.0000	MTS 3	286.00	126.90	165.00	9002450254000
1.0039		MTS 3	286.00	126.75	165.00	9002450255000
1.0138		MTS 3	286.00	126.38	165.00	9002450257500
1.0157	1 1/64	MTS 3	286.00	126.30	165.00	9002450258000
1.0236		MTS 3	286.00	126.00	165.00	9002450260000
1.0311	1 1/32	MTS 3	286.00	125.72	165.00	9002450261900

Diameter (d ₁)		Shank Size	l ₁ mm	t _{max} mm	l ₂ mm	EDP #
inch	wire/ltr					
1.0335		MTS 3	286.00	125.63	165.00	9002450262500
1.0433		MTS 3	286.00	125.25	165.00	9002450265000
1.0469	1 3/64	MTS 3	291.00	130.12	170.00	9002450265900
1.0531		MTS 3	291.00	129.88	170.00	9002450267500
1.0626	1 1/16	MTS 3	291.00	129.52	170.00	9002450269900
1.0630		MTS 3	291.00	129.50	170.00	9002450270000
1.0728		MTS 3	291.00	129.13	170.00	9002450272500
1.0780	1 5/64	MTS 3	291.00	128.93	170.00	9002450273800
1.0827		MTS 3	291.00	128.75	170.00	9002450275000
1.0925		MTS 3	291.00	128.38	170.00	9002450277500
1.0937	1 3/32	MTS 3	291.00	128.33	170.00	9002450277800
1.0945		MTS 3	291.00	128.30	170.00	9002450278000
1.1024		MTS 3	291.00	128.00	170.00	9002450280000
1.1122		MTS 3	296.00	132.63	175.00	9002450282500
1.1220		MTS 3	296.00	132.25	175.00	9002450285000
1.1248	1 1/8	MTS 3	296.00	132.15	175.00	9002450285700
1.1319		MTS 3	296.00	131.88	175.00	9002450287500
1.1417		MTS 3	296.00	131.50	175.00	9002450290000
1.1516		MTS 3	296.00	131.13	175.00	9002450292500
1.1563	1 5/32	MTS 3	296.00	130.95	175.00	9002450293700
1.1614		MTS 3	296.00	130.75	175.00	9002450295000
1.1713		MTS 3	296.00	130.38	175.00	9002450297500
1.1811		MTS 3	296.00	130.00	175.00	9002450300000
1.1874	1 3/16	MTS 3	301.00	134.76	180.00	9002450301600
1.1909		MTS 3	301.00	134.63	180.00	9002450302500
1.2008		MTS 3	301.00	134.25	180.00	9002450305000
1.2106		MTS 3	301.00	133.88	180.00	9002450307500
1.2205		MTS 3	301.00	133.50	180.00	9002450310000
1.2303		MTS 3	301.00	133.13	180.00	9002450312500
1.2402		MTS 3	301.00	132.75	180.00	9002450315000
1.2500	1 1/4	MTS 3	306.00	137.38	185.00	9002450317500
1.2598		MTS 4	334.00	137.00	185.00	9002450320000
1.2657	1 17/64	MTS 4	334.00	136.78	185.00	9002450321500
1.2697		MTS 4	334.00	136.63	185.00	9002450322500
1.2795		MTS 4	334.00	136.25	185.00	9002450325000
1.2811	1 9/32	MTS 4	334.00	136.19	185.00	9002450325400
1.2992		MTS 4	334.00	135.50	185.00	9002450330000
1.3126	1 5/16	MTS 4	334.00	134.99	185.00	9002450333400
1.3189		MTS 4	334.00	134.75	185.00	9002450335000
1.3280	1 21/64	MTS 4	339.00	139.41	190.00	9002450337300
1.3386		MTS 4	339.00	139.00	190.00	9002450340000
1.3437	1 11/32	MTS 4	339.00	138.81	190.00	9002450341300
1.3583		MTS 4	339.00	138.25	190.00	9002450345000
1.3748	1 3/8	MTS 4	339.00	137.62	190.00	9002450349200
1.3780		MTS 4	339.00	137.50	190.00	9002450350000
1.3976		MTS 4	339.00	136.75	190.00	9002450355000
1.4173		MTS 4	344.00	141.00	195.00	9002450360000
1.4370		MTS 4	344.00	140.25	195.00	9002450365000
1.4567		MTS 4	344.00	139.50	195.00	9002450370000
1.4689	1 15/32	MTS 4	344.00	139.04	195.00	9002450373100
1.4764		MTS 4	344.00	138.75	195.00	9002450375000
1.4961		MTS 4	349.00	143.00	200.00	9002450380000
1.5000	1 1/2	MTS 4	349.00	142.85	200.00	9002450381000
1.6094	1 39/64	MTS 4	354.00	143.68	205.00	9002450408800
1.7189	1 23/32	MTS 4	359.00	144.51	210.00	9002450436600
1.7811	1 25/32	MTS 4	364.00	147.14	215.00	9002450452400
1.8437	1 27/32	MTS 4	364.00	144.76	215.00	9002450468300
1.9220	1 59/64	MTS 4	369.00	146.77	220.00	9002450488200
2.1874	2 3/16	MTS 5	417.00	146.66	230.00	9002450555600
3.1248	3 1/8	MTS 6	514.00	140.95	260.00	9002450793700