Jobber length drills

Series no. **308**

~5xD	DIN 338	N	118°	h8		Cyl	L
Cutting depth	Standard	Type	Point angle	Tolerance on Ø	Web Thinning	Shank form	Cutting direction

Tool material: **HSCO**

Surface: >Ø 2.36

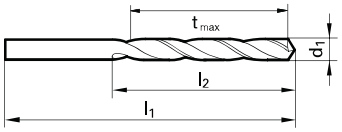
P	Steel	●
M	Stainless steel	○
K	Cast iron	●
N	Aluminum	○
S	Titanium alloys	
H	Hardened steel	

●=Optimal
○=Limited

web thinning ≥ Ø 2.370 • relieved cone • Co-alloyed high speed steel • increased wear resistance

alloyed and unalloyed steel • castings over 800 N/mm² • hot and cold rolled steels • antifriction bearing steels • high-alloyed steels • heat S treatable and case hardened steels

$t_{max} = l_2 - 1.5 \times d_1$



Speeds and feeds information on pg. 490

Shank diameter = cut diameter

Diameter (d_1) inch	wire/ltr	mm	l_1 mm	t_{max} mm	l_2 mm	EDP #
0.0189		0.48	20.00	4.28	5.00	9003080004800
0.0197		0.50	22.00	5.25	6.00	9003080005000
0.0295		0.75	28.00	7.88	9.00	9003080007500
0.0307		0.78	30.00	8.83	10.00	9003080007800
0.0315		0.80	30.00	8.80	10.00	9003080008000
0.0354		0.90	32.00	9.65	11.00	9003080009000
0.0358	#64	0.91	32.00	9.64	11.00	9003080009100
0.0366		0.93	32.00	9.61	11.00	9003080009300
0.0386		0.98	34.00	10.53	12.00	9003080009800
0.0394		1.00	34.00	10.50	12.00	9003080010000
0.0402	#60	1.02	34.00	10.47	12.00	9003080010200
0.0425		1.08	36.00	12.38	14.00	9003080010800
0.0433		1.10	36.00	12.35	14.00	9003080011000
0.0453		1.15	36.00	12.28	14.00	9003080011500
0.0465	#56	1.18	36.00	12.23	14.00	9003080011800
0.0469	3/64	1.19	38.00	14.22	16.00	9003080011900
0.0472		1.20	38.00	14.20	16.00	9003080012000
0.0492		1.25	38.00	14.13	16.00	9003080012500
0.0512		1.30	38.00	14.05	16.00	9003080013000
0.0520	#55	1.32	38.00	14.02	16.00	9003080013200
0.0531		1.35	40.00	15.98	18.00	9003080013500
0.0551	#54	1.40	40.00	15.90	18.00	9003080014000
0.0563		1.43	40.00	15.86	18.00	9003080014300
0.0571		1.45	40.00	15.83	18.00	9003080014500
0.0579		1.47	40.00	15.80	18.00	9003080014700
0.0587		1.49	40.00	15.77	18.00	9003080014900
0.0591		1.50	40.00	15.75	18.00	9003080015000
0.0594	#53	1.51	43.00	17.74	20.00	9003080015100
0.0610		1.55	43.00	17.68	20.00	9003080015500
0.0626	1/16	1.59	43.00	17.62	20.00	9003080015900
0.0630		1.60	43.00	17.60	20.00	9003080016000
0.0661		1.68	43.00	17.48	20.00	9003080016800
0.0669	#51	1.70	43.00	17.45	20.00	9003080017000
0.0677		1.72	46.00	19.42	22.00	9003080017200
0.0689		1.75	46.00	19.38	22.00	9003080017500
0.0701	#50	1.78	46.00	19.33	22.00	9003080017800
0.0709		1.80	46.00	19.30	22.00	9003080018000
0.0728	#49	1.85	46.00	19.23	22.00	9003080018500
0.0748		1.90	46.00	19.15	22.00	9003080019000
0.0760	#48	1.93	49.00	21.11	24.00	9003080019300
0.0768		1.95	49.00	21.08	24.00	9003080019500
0.0780	5/64	1.98	49.00	21.03	24.00	9003080019800
0.0787		2.00	49.00	21.00	24.00	9003080020000
0.0811	#46	2.06	49.00	20.91	24.00	9003080020600

Diameter (d_1) inch	wire/ltr	mm	l_1 mm	t_{max} mm	l_2 mm	EDP #
0.0819	#45	2.08	49.00	20.88	24.00	9003080020800
0.0827		2.10	49.00	20.85	24.00	9003080021000
0.0858	#44	2.18	53.00	23.73	27.00	9003080021800
0.0866		2.20	53.00	23.70	27.00	9003080022000
0.0886		2.25	53.00	23.63	27.00	9003080022500
0.0890	#43	2.26	53.00	23.61	27.00	9003080022600
0.0906		2.30	53.00	23.55	27.00	9003080023000
0.0925		2.35	53.00	23.48	27.00	9003080023500
0.0933	#42	2.37	57.00	26.45	30.00	9003080023700
0.0937	3/32	2.38	57.00	26.43	30.00	9003080023800
0.0945		2.40	57.00	26.40	30.00	9003080024000
0.0980	#40	2.49	57.00	26.27	30.00	9003080024900
0.0984		2.50	57.00	26.25	30.00	9003080025000
0.0996	#39	2.53	57.00	26.21	30.00	9003080025300
0.1024		2.60	57.00	26.10	30.00	9003080026000
0.1039	#37	2.64	57.00	26.04	30.00	9003080026400
0.1063		2.70	61.00	28.95	33.00	9003080027000
0.1083		2.75	61.00	28.88	33.00	9003080027500
0.1094	7/64	2.78	61.00	28.83	33.00	9003080027800
0.1098	#35	2.79	61.00	28.82	33.00	9003080027900
0.1102		2.80	61.00	28.80	33.00	9003080028000
0.1110	#34	2.82	61.00	28.77	33.00	9003080028200
0.1142		2.90	61.00	28.65	33.00	9003080029000
0.1161	#32	2.95	61.00	28.58	33.00	9003080029500
0.1181		3.00	61.00	28.50	33.00	9003080030000
0.1201	#31	3.05	65.00	31.43	36.00	9003080030500
0.1220		3.10	65.00	31.35	36.00	9003080031000
0.1248	1/8	3.17	65.00	31.25	36.00	9003080031700
0.1260		3.20	65.00	31.20	36.00	9003080032000
0.1299		3.30	65.00	31.05	36.00	9003080033000
0.1339		3.40	70.00	33.90	39.00	9003080034000
0.1358	#29	3.45	70.00	33.83	39.00	9003080034500
0.1378		3.50	70.00	33.75	39.00	9003080035000
0.1417		3.60	70.00	33.60	39.00	9003080036000
0.1437		3.65	70.00	33.53	39.00	9003080036500
0.1441	#27	3.66	70.00	33.51	39.00	9003080036600
0.1457		3.70	70.00	33.45	39.00	9003080037000
0.1469	#26	3.73	70.00	33.41	39.00	9003080037300
0.1496	#25	3.80	75.00	37.30	43.00	9003080038000
0.1520	#24	3.86	75.00	37.21	43.00	9003080038600
0.1535		3.90	75.00	37.15	43.00	9003080039000
0.1539	#23	3.91	75.00	37.14	43.00	9003080039100
0.1563	5/32	3.97	75.00	37.05	43.00	9003080039700
0.1571	#22	3.99	75.00	37.02	43.00	9003080039900

Jobber length drills

Series no. 308

Diameter (d_1) inch	wire/ltr	mm	l_1 mm	t_{max} mm	l_2 mm	EDP #
0.1575		4.00	75.00	37.00	43.00	9003080040000
0.1591	#21	4.04	75.00	36.94	43.00	9003080040400
0.1594		4.05	75.00	36.93	43.00	9003080040500
0.1610	#20	4.09	75.00	36.87	43.00	9003080040900
0.1614		4.10	75.00	36.85	43.00	9003080041000
0.1634		4.15	75.00	36.78	43.00	9003080041500
0.1654		4.20	75.00	36.70	43.00	9003080042000
0.1661	#19	4.22	75.00	36.67	43.00	9003080042200
0.1693	#18	4.30	80.00	40.55	47.00	9003080043000
0.1720	11/64	4.37	80.00	40.45	47.00	9003080043700
0.1728	#17	4.39	80.00	40.42	47.00	9003080043900
0.1732		4.40	80.00	40.40	47.00	9003080044000
0.1772	#16	4.50	80.00	40.25	47.00	9003080045000
0.1811		4.60	80.00	40.10	47.00	9003080046000
0.1819	#14	4.62	80.00	40.07	47.00	9003080046200
0.1850	#13	4.70	80.00	39.95	47.00	9003080047000
0.1874	3/16	4.76	86.00	44.86	52.00	9003080047600
0.1890	#12	4.80	86.00	44.80	52.00	9003080048000
0.1929		4.90	86.00	44.65	52.00	9003080049000
0.1961	#9	4.98	86.00	44.53	52.00	9003080049800
0.1969		5.00	86.00	44.50	52.00	9003080050000
0.1992	#8	5.06	86.00	44.41	52.00	9003080050600
0.2008		5.10	86.00	44.35	52.00	9003080051000
0.2012	#7	5.11	86.00	44.34	52.00	9003080051100
0.2031	13/64	5.16	86.00	44.26	52.00	9003080051600
0.2039	#6	5.18	86.00	44.23	52.00	9003080051800
0.2047		5.20	86.00	44.20	52.00	9003080052000
0.2055	#5	5.22	86.00	44.17	52.00	9003080052200
0.2087		5.30	86.00	44.05	52.00	9003080053000
0.2091	#4	5.31	93.00	49.04	57.00	9003080053100
0.2126		5.40	93.00	48.90	57.00	9003080054000
0.2130	#3	5.41	93.00	48.89	57.00	9003080054100
0.2165		5.50	93.00	48.75	57.00	9003080055000
0.2189	7/32	5.56	93.00	48.66	57.00	9003080055600
0.2205		5.60	93.00	48.60	57.00	9003080056000
0.2209	#2	5.61	93.00	48.59	57.00	9003080056100
0.2244		5.70	93.00	48.45	57.00	9003080057000
0.2283		5.80	93.00	48.30	57.00	9003080058000
0.2339	A	5.94	93.00	48.09	57.00	9003080059400
0.2343	15/64	5.95	93.00	48.08	57.00	9003080059500
0.2362		6.00	93.00	48.00	57.00	9003080060000
0.2402		6.10	101.00	53.85	63.00	9003080061000
0.2421	C	6.15	101.00	53.78	63.00	9003080061500
0.2441		6.20	101.00	53.70	63.00	9003080062000
0.2461	D	6.25	101.00	53.63	63.00	9003080062500
0.2480		6.30	101.00	53.55	63.00	9003080063000
0.2500	1/4 E	6.35	101.00	53.48	63.00	9003080063500
0.2559		6.50	101.00	53.25	63.00	9003080065000
0.2598		6.60	101.00	53.10	63.00	9003080066000
0.2638		6.70	101.00	52.95	63.00	9003080067000
0.2657	17/64 H	6.75	109.00	58.88	69.00	9003080067500
0.2677		6.80	109.00	58.80	69.00	9003080068000

Diameter (d_1) inch	wire/ltr	mm	l_1 mm	t_{max} mm	l_2 mm	EDP #
0.2756		7.00	109.00	58.50	69.00	9003080070000
0.2902	L	7.37	109.00	57.95	69.00	9003080073700
0.2913		7.40	109.00	57.90	69.00	9003080074000
0.2953		7.50	109.00	57.75	69.00	9003080075000
0.2969	19/64	7.54	117.00	63.69	75.00	9003080075400
0.2992		7.60	117.00	63.60	75.00	9003080076000
0.3031		7.70	117.00	63.45	75.00	9003080077000
0.3110		7.90	117.00	63.15	75.00	9003080079000
0.3150		8.00	117.00	63.00	75.00	9003080080000
0.3161	O	8.03	117.00	62.96	75.00	9003080080300
0.3189		8.10	117.00	62.85	75.00	9003080081000
0.3228	P	8.20	117.00	62.70	75.00	9003080082000
0.3268		8.30	117.00	62.55	75.00	9003080083000
0.3280	21/64	8.33	117.00	62.51	75.00	9003080083300
0.3346		8.50	117.00	62.25	75.00	9003080085000
0.3386		8.60	125.00	68.10	81.00	9003080086000
0.3390	R	8.61	125.00	68.09	81.00	9003080086100
0.3425		8.70	125.00	67.95	81.00	9003080087000
0.3437	11/32	8.73	125.00	67.91	81.00	9003080087300
0.3465		8.80	125.00	67.80	81.00	9003080088000
0.3480	S	8.84	125.00	67.74	81.00	9003080088400
0.3504		8.90	125.00	67.65	81.00	9003080089000
0.3543		9.00	125.00	67.50	81.00	9003080090000
0.3579	T	9.09	125.00	67.37	81.00	9003080090900
0.3583		9.10	125.00	67.35	81.00	9003080091000
0.3594	23/64	9.13	125.00	67.31	81.00	9003080091300
0.3622		9.20	125.00	67.20	81.00	9003080092000
0.3661		9.30	125.00	67.05	81.00	9003080093000
0.3677	U	9.34	125.00	66.99	81.00	9003080093400
0.3701		9.40	125.00	66.90	81.00	9003080094000
0.3740		9.50	125.00	66.75	81.00	9003080095000
0.3748	3/8	9.52	133.00	72.72	87.00	9003080095200
0.3772	V	9.58	133.00	72.63	87.00	9003080095800
0.3780		9.60	133.00	72.60	87.00	9003080096000
0.3819		9.70	133.00	72.45	87.00	9003080097000
0.3858	W	9.80	133.00	72.30	87.00	9003080098000
0.3898		9.90	133.00	72.15	87.00	9003080099000
0.3906	25/64	9.92	133.00	72.12	87.00	9003080099200
0.3937		10.00	133.00	72.00	87.00	9003080100000
0.4039	Y	10.26	133.00	71.61	87.00	9003080102600
0.4063	13/32	10.32	133.00	71.52	87.00	9003080103200
0.4130	Z	10.49	133.00	71.27	87.00	9003080104900
0.4134		10.50	133.00	71.25	87.00	9003080105000
0.4331		11.00	142.00	77.50	94.00	9003080110000
0.4374	7/16	11.11	142.00	77.34	94.00	9003080111100
0.4528		11.50	142.00	76.75	94.00	9003080115000
0.4531	29/64	11.51	142.00	76.74	94.00	9003080115100
0.4689	15/32	11.91	151.00	83.14	101.00	9003080119100
0.4744		12.05	151.00	82.93	101.00	9003080120500
0.4921		12.50	151.00	82.25	101.00	9003080125000
0.5000	1/2	12.70	151.00	81.95	101.00	9003080127000

Series # 308

Material group	Hardness HRc	Hardness Bhn	SFM	Feed Rate - IPR 1/16 in. 1.590 mm	1/8 in. 3.170 mm	1/4 in. 6.350 mm	3/8 in. 9.520 mm	1/2 in. 12.700 mm	5/8 in. 15.870 mm	3/4 in. 19.050 mm	1 in. 25.400 mm	1 1/4 in. 31.750 mm	1 1/2 in. 38.100 mm
Common structural steels	-	≤ 150											
	≤ 32	≤ 301											
Free-cutting steels	≤ 25	≤ 255											
	≤ 32	≤ 301	90	0.0015	0.0040	0.0065	0.0080	0.0100	0.0100	0.0110			
Unalloyed heat-treatable steels	≤ 20	≤ 220											
	≤ 25	≤ 255	90	0.0015	0.0040	0.0065	0.0080	0.0100	0.0100	0.0110			
	≤ 32	≤ 301	45	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
Alloyed heat-treatable steels	≤ 32	≤ 301	55	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
	≤ 43	≤ 402	45	0.0010	0.0025	0.0040	0.0050	0.0065	0.0065	0.0070			
Unalloyed case hardened steels	≤ 25	≤ 255											
Alloyed case hardened steels	≤ 32	≤ 301	50	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
	≤ 43	≤ 402	35	0.0010	0.0025	0.0040	0.0050	0.0065	0.0065	0.0070			
Nitriding steels	≤ 32	≤ 301	45	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
	≤ 43	≤ 402	30	0.0010	0.0025	0.0040	0.0050	0.0065	0.0065	0.0070			
Tool steels	≤ 25	≤ 255	55	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
	≤ 43	≤ 402	30	0.0010	0.0025	0.0040	0.0050	0.0065	0.0065	0.0070			
High speed steels	≤ 43	≤ 402	30	0.0010	0.0025	0.0040	0.0050	0.0065	0.0065	0.0070			
Spring steels	≤ 38	≤ 354	25	0.0007	0.0020	0.0030	0.0040	0.0050	0.0050	0.0055			
Hardened steels	≤ 48	≤ 460											
	≤ 66	-											
Stainless steels, sulphured	≤ 28	≤ 273	45	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
austenitic	≤ 36	≤ 337	30	0.0010	0.0025	0.0040	0.0050	0.0065	0.0065	0.0070			
martensitic	≤ 46	≤ 435	35	0.0010	0.0025	0.0040	0.0050	0.0065	0.0065	0.0070			
Cast iron	≤ 23	≤ 242	115	0.0017	0.0050	0.0080	0.0100	0.0125	0.0125	0.0140			
	≤ 38	≤ 354	90	0.0017	0.0050	0.0080	0.0100	0.0125	0.0125	0.0140			
Spheroidal graphite iron and malleable cast iron	≤ 23	≤ 242	95	0.0017	0.0050	0.0080	0.0100	0.0125	0.0125	0.0140			
	≤ 38	≤ 354	70	0.0017	0.0050	0.0080	0.0100	0.0125	0.0125	0.0140			
Chilled cast iron	≤ 38	≤ 354	25	0.0010	0.0025	0.0040	0.0050	0.0065	0.0065	0.0070			
New cast materials GGV	≤ 20	≤ 220											
	≤ 32	≤ 301											
New cast materials ADI	≤ 32	≤ 301											
	≤ 43	≤ 402											
Special alloys	≤ 54	≤ 549											
Ti and Ti-alloys	≤ 25	≤ 255											
	≤ 43	≤ 402											
Aluminium and Al-alloys	-	≤ 120											
Al wrought alloys	-	≤ 200											
Al cast alloys ≤ 10 % Si	-	≤ 180											
≤ 24 % Si	-	≤ 180											
Magnesium alloys	-	≤ 120											
Copper, low-alloyed	-	≤ 150	115	0.0015	0.0040	0.0065	0.0080	0.0100	0.0100	0.0110			
Brass, short-chipping	-	≤ 180											
long-chipping	-	≤ 180	145	0.0015	0.0040	0.0065	0.0080	0.0100	0.0100	0.0110			
Bronze, short-chipping	-	≤ 180	115	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
	≤ 25	≤ 255	95	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
Bronze, long-chipping	≤ 25	≤ 255	90	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
	≤ 32	≤ 301	70	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
Duroplastics			55	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
Thermoplastics													
Reinforced plastics - Kevlar													
Reinforced plastics - GFK / CFK													

Series # 317

Material group	Hardness HRc	Hardness Bhn	SFM	Feed Rate - IPR 1/16 in. 1.590 mm	1/8 in. 3.170 mm	1/4 in. 6.350 mm	3/8 in. 9.520 mm	1/2 in. 12.700 mm	5/8 in. 15.870 mm	3/4 in. 19.050 mm	1 in. 25.400 mm	1 1/4 in. 31.750 mm	1 1/2 in. 38.100 mm
Common structural steels	-	≤ 150											
	≤ 32	≤ 301											
Free-cutting steels	≤ 25	≤ 255											
	≤ 32	≤ 301	75	0.0015	0.0040	0.0065	0.0080	0.0100	0.0100	0.0110			
Unalloyed heat-treatable steels	≤ 20	≤ 220											
	≤ 25	≤ 255	75	0.0015	0.0040	0.0065	0.0080	0.0100	0.0100	0.0110			
	≤ 32	≤ 301	50	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
Alloyed heat-treatable steels	≤ 32	≤ 301	50	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
	≤ 43	≤ 402	35	0.0010	0.0025	0.0040	0.0050	0.0065	0.0065	0.0070			
Unalloyed case hardened steels	≤ 25	≤ 255											
Alloyed case hardened steels	≤ 32	≤ 301	45	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
	≤ 43	≤ 402	30	0.0010	0.0025	0.0040	0.0050	0.0065	0.0065	0.0070			
Nitriding steels	≤ 32	≤ 301	35	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
	≤ 43	≤ 402	25	0.0010	0.0025	0.0040	0.0050	0.0065	0.0065	0.0070			
Tool steels	≤ 25	≤ 255	50	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
	≤ 43	≤ 402	25	0.0010	0.0025	0.0040	0.0050	0.0065	0.0065	0.0070			
High speed steels	≤ 43	≤ 402	25	0.0010	0.0025	0.0040	0.0050	0.0065	0.0065	0.0070			
Spring steels	≤ 38	≤ 354	15	0.0007	0.0020	0.0030	0.0040	0.0050	0.0050	0.0055			
Hardened steels	≤ 48	≤ 460											
	≤ 66	-											
Stainless steels, sulphured	≤ 28	≤ 273	35	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
austenitic	≤ 36	≤ 337	25	0.0010	0.0025	0.0040	0.0050	0.0065	0.0065	0.0070			
martensitic	≤ 46	≤ 435	30	0.0010	0.0025	0.0040	0.0050	0.0065	0.0065	0.0070			
Cast iron	≤ 23	≤ 242	95	0.0017	0.0050	0.0080	0.0100	0.0125	0.0125	0.0140			
	≤ 38	≤ 354	75	0.0017	0.0050	0.0080	0.0100	0.0125	0.0125	0.0140			
Spheroidal graphite iron and malleable cast iron	≤ 23	≤ 242	75	0.0017	0.0050	0.0080	0.0100	0.0125	0.0125	0.0140			
	≤ 38	≤ 354	65	0.0017	0.0050	0.0080	0.0100	0.0125	0.0125	0.0140			
Chilled cast iron	≤ 38	≤ 354	15	0.0010	0.0025	0.0040	0.0050	0.0065	0.0065	0.0070			
New cast materials GGV	≤ 20	≤ 220											
	≤ 32	≤ 301											
New cast materials ADI	≤ 32	≤ 301											
	≤ 43	≤ 402											
Special alloys	≤ 54	≤ 549	15	0.0005	0.0015	0.0025	0.0030	0.0040	0.0040	0.0045			
Ti and Ti-alloys	≤ 25	≤ 255											
	≤ 43	≤ 402											
Aluminium and Al-alloys	-	≤ 120											
Al wrought alloys	-	≤ 200											
Al cast alloys ≤ 10 % Si	-	≤ 180											
≤ 24 % Si	-	≤ 180											
Magnesium alloys	-	≤ 120											
Copper, low-alloyed	-	≤ 150	95	0.0015	0.0040	0.0065	0.0080	0.0100	0.0100	0.0110			
Brass, short-chipping	-	≤ 180											
long-chipping	-	≤ 180	120	0.0015	0.0040	0.0065	0.0080	0.0100	0.0100	0.0110			
Bronze, short-chipping	-	≤ 180	95	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
	≤ 25	≤ 255	75	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
Bronze, long-chipping	≤ 25	≤ 255	75	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
	≤ 32	≤ 301	65	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
Duroplastics			50	0.0012	0.0030	0.0050	0.0065	0.0080	0.0080	0.0090			
Thermoplastics													
Reinforced plastics - Kevlar													
Reinforced plastics - GFK / CFK													