

Screw Plugs / Loosening Prevention Screw Plugs

RoHS

Material	Hardness	Code
SCM435 (M2.5~10) S45C (M12~45)	34~43HRC	MMSW
S45C		MMSWS
	MMSWA	
	MMSWAS	
	33~38HRC	MMSWZ MMSWZS

Surface treatment: blacking (Fe₃O₄)
 ⚠ JIS B 0207 Grade 2

MMSWA (through hole type) MMSWZ (washer type)
 MMSWAS (through hole-short type) MMSWZS (washer-short type)

Code No. Code	M	L	P	B	t	@/P			
						1~299P	300~499P	500~999P	1000~2000P
2.5	3	0.45	1.3	1.2	10	8	8	7	
3	3	0.5	1.5	1.2	10	8	8	7	
4	4	0.7	2	1.5	10	8	8	7	
5	5	0.8	2.5	2	16	12	11	11	
6	6	1.0	3	3.5	16	12	11	11	
8	8	1.25	4	5	21	17	17	16	
10			5	6	26	20	20	19	
12			6		36	29	29	28	
14	10		6	5	41	34	33	32	
16			8	5	51	42	42	40	
18			8		55	46	46	45	
20			10		60	51	50	48	
22			12		72	59	59	57	
24			12		81	68	67	65	
25			12		91	76	76	73	
26	12	1.5	14	6	100	85	85	81	
27			14		113	94	93	89	
28			14		122	102	101	97	
30			17		147	106	105	101	
33			17		141	119	118	113	
36			17		255	222	219	210	
38			17		331	290	288	275	
40	18		17	10	426	376	372	355	
42					561	495	491	468	
45					675	598	592	565	

Code No. Code	M-L	P	B	t	@/P			
					1~299P	300~499P	500~999P	1000~2000P
8-6	1.25	4			51	43	42	40
10-6		5			55	48	47	45
12-6		6	3		67	56	55	52
14-6		8			72	60	59	57
16-6		8			81	68	67	65
18-6		10			86	73	72	68
20-8		10			91	77	76	73
22-8		12			100	86	85	81
24-8	1.5	12			113	94	93	89
25-8		12			122	103	101	97
26-8		14	4		132	111	110	105
27-8		14			141	120	118	113
28-8		14			151	128	127	122
30-8		17			155	133	131	125
33-8		17			170	145	143	138

Code No. Code	M	L	P	B	@/P			
					1~299P	300~499P	500~999P	1000~2000P
8	8	1.25	4	4	46	39	38	36
10			5	5	46	39	38	36
12			6	6	51	43	42	41
14	10		6	8	55	48	47	45
16			8	8	60	51	50	48
18			10	10	72	60	59	57
20			10	10	76	65	64	61
22			12	12	81	68	67	65
24			12	12	95	82	81	77
25			12	12	100	86	85	81
26	12		14	14	108	90	88	85
27			14	14	113	94	93	89
28			14	14	122	103	102	97
30			17	17	127	106	105	101
33			17	17	141	120	119	113

Code No. Code	M-L	P	B	@/P			
				1~299P	300~499P	500~999P	1000~2000P
8-6	1.25	4	4	76	65	64	61
10-6		5	5	76	65	64	61
12-6		6	6	81	68	67	65
14-6		6	8	86	73	72	68
16-6		8	8	91	77	76	73
18-6		10	10	100	86	85	81
20-8		10	10	108	90	88	85
22-8	1.5	12	12	113	94	93	89
24-8		12	12	127	106	105	101
25-8		12	12	132	111	110	105
26-8		14	14	136	116	114	109
27-8		14	14	141	120	119	113
28-8		17	17	151	128	127	122
30-8		17	17	155	133	131	125
33-8		17	17	170	145	143	138

Code No. Code	M	L	P	B	H	C	t	@/P			
								1~99P	100~199P	200~299P	300~500P
6	8	1.0	3	9				100	95	91	81
8	10	1.25	4	11				100	95	91	81
10			5	13				113	108	99	88
12			6	15				122	116	111	97
14	12		6	17				132	126	119	105
16			8	19				141	134	128	113
18			10	21				151	144	136	121
20			10	23				160	152	145	129
22			12	25	2.5	5		179	170	162	145
24			12	27				198	189	179	162
25			12	28				227	216	205	185
26	15		14	29				246	234	222	201
27			14	30				265	252	239	218
28			17	31				284	270	256	234
30			17	33				303	288	273	250
33			17	36				322	306	290	266

Code No. Code	M-L	P	B	H	C	t	@/P			
							1~99P	100~199P	200~299P	300~500P
10-10		5	13				141	134	128	113
12-10		6	15				151	144	136	121
14-10		8	17				160	152	145	129
16-10		8	19				170	162	153	137
18-10		10	21				179	170	162	145
20-10		10	23				189	180	170	153
22-10	1.5	12	25	4			208	198	188	169
24-10		12	27	4			227	216	205	185
25-10		12	28				255	243	230	210
26-10		14	29				274	261	247	226
27-10		14	30				293	279	265	242
28-10		17	31				312	297	282	258
30-12		17	33	5			331	315	299	275
33-12		17	36	5			350	333	316	291

Hole type

RoHS

Material	Hardness	Code
S45C	34~43HRC	MMSWH MMSWSH (short type)

Surface treatment: blacking (Fe₃O₄)
 ⚠ JIS B 0207 Grade 2

Code No. Code	M	L	P	B	d	t	@/P			
							1~299P	300~499P	500~999P	1000~2000P
12				6			76	68	68	65
14				8	5		81	73	72	69
16	10			8	3		90	81	80	77
18				10			95	86	85	81
20				10			100	90	89	85
22				12			109	98	97	93
24				12			119	107	106	101
25				12			128	115	114	109
26	12			14	6		133	120	118	113
27				14	5		143	129	127	122
28				14	5		152	137	135	129
30				17			157	141	140	133
33				17			171	154	152	145

Code No. Code	M-L	P	B	d	t	@/P			
						1~299P	300~499P	500~999P	1000~2000P
12-6			6			105	95	93	89
14-6			8	3		109	98	97	93
16-6			8	3		119	107	106	101
18-6			10			124	112	110	105
20-8			10			128	115	114	109
22-8			12			138	124	123	117
24-8	1.5		14	4		143	129	127	122
25-8			14	4		152	137	135	129
26-8			14	4		162	146	144	138
27-8			17			171	154	152	145
28-8			17			181	163	161	154
30-8			17			185	167	165	157
33-8			17			200	180	178	170

Loosening prevention screw plugs

RoHS

Material	Hardness	Code
SCM435 (M4~10) S45C (M12~20)	34~43HRC	LLMSW

Surface treatment: blacking (Fe₃O₄)
 Loosening prevention: nylon resin

RoHS

Material	Hardness	Code
S45C	33~38HRC	MMSWZH (washer type) MMSWZSH (washer-short type)

Surface treatment: blacking (Fe₃O₄)
 ⚠ JIS B 0207 Grade 2

Code No. Code	M	L	P	B	H	d	t	C	@/P	
									1~99P	100~200P
10				5	13				143	136
12				6	15				152	144
14	12			6	17				162	154
16				8	19	3			171	162
18				8	21				181	172
20				10	23				190	181
22				12	25				209	199
24				12	27	5	2.5		228	217
25				12	28				252	239
26	15			14	29				271	257
27				14	30	5			290	276