

Washers / Spacers / Spring Washers

SSW (washers for stripper bolt-coil spring)

RoHS

Material: S45C
Hardness: 48~52HRC

Code No.		D	d	t	@/P			
Code	No.				1~19P	20~49P	50~99P	100~200P
SSW	10	10	4.5	3	130	123	117	110
	12	12	5.5		130	123	117	110
	12-6	6	6		140	133	126	119
	16	16	6.5	4	160	152	144	136
	20	20	8		160	152	144	136
	22	22	10	5	170	161	153	144
	25	25	10		170	161	153	144
	25-12	12	12		180	171	162	153
	27	27	13	8	210	199	189	178
	30	30	13		210	199	189	178
	35	35	16		260	247	234	221
	40	40	16		260	247	234	221
50	50	20	300	285	270	255		

WWSS (washers for ellipse hole)

RoHS

Material: S45C
Hardness: 23~30HRC

Code No.		D	d	t	@/P			
Code	No.				1~49P	50~199P	200~499P	500~1000P
WWSS	6	12.5	6.4	2.5	43	40	38	36
	8	17	8.4		52	49	46	43
	10	21	10.5	3	67	63	60	56
	12	24	13		81	76	72	68
	16	30	17	4	105	100	95	90
	20	37	21		152	144	136	128

SSPW (spacers)

RoHS

Material: S45C

Code No.		D	d	@/P			
Code	No.			1~49P	50~199P	200~499P	500~1000P
SSPW	13	13	4.5	95	90	85	80
			5.5	95	90	85	80
			6.5	95	90	85	80
	16	16	6.5	95	90	85	80
			8.5	95	90	85	80
			8.5	143	133	128	121
	20	20	10.5	143	133	128	121
			10.5	143	133	128	121
	25	25	12.5	143	133	128	121

SSBW (washers for pressure pin-hang collar)

RoHS

Material: S45C
Hardness: 48~52HRC

Code No.		D	d	t	@/P			
Code	No.				1~49P	50~199P	200~499P	500~1000P
SSBW	20	5	5	76	72	68	64	
	22	5		86	81	77	73	
	25	6		95	90	85	80	
	27	5	100	95	90	85		
	30	6	7	110	104	99	93	
	35	8	160	152	144	136		

Code No. SSW10
SSBW20 - 5

DELIVERY In stock working day P.38

PRICE Please enquire the price and delivery day for quantity more than listed above.

RoHS

Material	Hardness	T t	Code
S45C	45HRC~	±0.005	FFAWBH
		±0.01	WWASBH

Surface treatment: blacking (Fe3O4)

ORDER Code No. FFAWBH8 - 5 DELIVERY P.38

RoHS

Material	Hardness	T T	Code
S45C	45HRC~	±0.01	FFWASC
		±0.1	FFWSSC
		±0.01	FFWASCH
		±0.1	FFWSSCH

※ D=16 or less C0.1~0.2
D=16.5 or more C0.5 or less

ORDER Code No. FFWASC - D15.5 - V5.5 - T2.6

DELIVERY 3 Days P.38

Spring washers

RoHS

Material	Hardness	Code
SWRH62	42~50HRC	CCBW

ORDER Code No. CCWB10 DELIVERY In stock working day P.38

Code No.		D	d	t	@/P (1~19P)		
Code	No.				FFAWBH	WWASBH	
FFAWBH	6	3		3	100	90	
					7	100	90
					8	100	90
	9	3	4	5	100	90	
					10	130	120
					12	130	120
	13	3	4	5	140	130	
					15	150	140
					16	150	140
	WWASBH	18	5	6	180	170	
					20	180	170
		22	6	8	190	180	
					25	210	200
		28	8	10	220	210	
					30	240	220
		32	10	12	260	240	
35					310	280	
40		12	16	370	320		

PRICE Quantity discount rate P.38 (Prices less than 1¥ are rounded off)

1~19	20~49	50~99	100~199	200~
100%	95%	90%	85%	Enquiry

Code	D	V	T	@/P (1~19P)					
				FFWASC	FFWSSC	FFWASCH	FFWSSCH		
FFWASC	4~10 (0.5)	2	1.0~2.0	350	190	440	220		
				2.1~5.0	410	230	520	270	
	5.1~10.0			550	300	690	360		
	10.5~20 (0.5)			2.6	1.0~2.0	540	320	670	380
					2.1~5.0	570	330	720	390
	21~30 (1)			3~55 (V≤D-2)	5.1~10.0	740	410	920	500
		1.0~2.0	680		410	840	490		
	31~40 (1)	1.0~2.0	2.1~5.0	750	450	940	540		
			5.1~10.0	960	560	1,200	670		
	41~50 (1)	1.0~2.0	2.1~5.0	840	500	1,050	590		
			5.1~10.0	1,020	590	1,280	720		
	51~60 (1)	1.0~2.0	2.1~5.0	1,120	670	1,360	740		
5.1~10.0			1,320	970	1,830	1,160			
51~60 (1)	1.0~2.0	2.1~5.0	1,250	1,040	1,550	1,190			
		5.1~10.0	1,410	1,220	1,760	1,300			
51~60 (1)	1.0~2.0	2.1~5.0	1,610	1,300	2,020	1,450			

PRICE Quantity discount rate P.38 (Prices less than 1¥ are rounded off)

1~19	20~49	50~99	100~199	200~
100%	95%	90%	85%	Enquiry

Code No.		d	D	h	t	@/P			
Code	No.					1~49P	50~199P	200~499P	500~1000P
CCBW	3	3.1	5.6	2	1	10	9	7	7
	4	4.1	7	2.4	1.2	10	9	7	7
	5	5.1	8.8	3.2	1.6	10	9	7	7
	6	6.1	9.9	3.2	1.6	10	9	7	7
	8	8.1	12.7	4	2	10	9	7	7
	10	10.2	16	5	2.5	12	10	8	8
	12	12.2	18	5	2.5	13	12	10	10
	16	16.2	24.4	7	3.5	21	20	17	16
	20	20.2	30.6	9	4.5	29	27	24	22
	24	24.5	35.9	10	5	54	51	46	43

PRICE Please enquire the price and delivery day for quantity more than listed above.