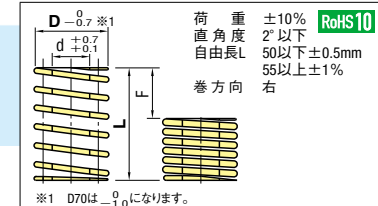


COIL SPRINGS -SWF-

コイルスプリング

-SWF-



D	d	L	ばね定数		F=L×40%		F=L×45%		F=L×50%		型式		
			N/mm(kgf/mm)	Fmm	荷重 N(kgf)	Fmm	荷重 N(kgf)	Fmm	荷重 N(kgf)				
6	3	15	7.8(0.80)	6.0	6.8	7.5	SWF6 -15				Type D-L		
		20	5.9(0.60)	8.0	9.0	10.0							
		25	4.7(0.48)	10.0	11.3	12.5	59						
		30	3.9(0.40)	12.0	13.5	15.0	6.0						
		35	3.4(0.34)	14.0	15.8	17.5							
		40	2.9(0.30)	16.0	18.0	20.0							
8	4	10	15.7(1.60)	4.0	4.5	5.0	SWF8 -10				Type D-L		
		15	10.5(1.07)	6.0	6.8	7.5							
		20	7.8(0.80)	8.0	9.0	10.0							
		25	6.3(0.64)	10.0	11.2	12.5							
		30	5.2(0.53)	12.0	13.5	15.0							
		35	4.5(0.46)	14.0	15.7	17.5							
		40	3.9(0.40)	16.0	18.0	20.0	79						
		45	3.5(0.36)	18.0	20.2	22.5	8.0						
		50	3.1(0.32)	20.0	22.5	25.0							
		55	2.9(0.29)	22.0	24.7	27.5							
		60	2.6(0.27)	24.0	27.0	30.0							
		65	2.4(0.25)	26.0	29.3	32.5							
70	2.2(0.23)	28.0	31.5	35.0									
75	2.1(0.21)	30.0	33.8	37.5									
80	2.0(0.20)	32.0	36.0	40.0									
10	5	10	19.6(2.00)	4.0	4.5	5.0	SWF10-10				Type D-L		
		15	13.1(1.33)	6.0	6.8	7.5							
		20	9.8(1.00)	8.0	9.0	10.0							
		25	7.8(0.80)	10.0	11.2	12.5							
		30	6.5(0.67)	12.0	13.5	15.0							
		35	5.9(0.57)	14.0	15.7	17.5							
		40	4.9(0.50)	16.0	18.0	20.0	98						
		45	4.4(0.44)	18.0	20.2	22.5	10						
		50	3.9(0.40)	20.0	22.5	25.0							
		55	3.6(0.36)	22.0	24.7	27.5							
		60	3.3(0.33)	24.0	27.0	30.0							
		65	3.0(0.31)	26.0	29.2	32.5							
70	2.8(0.29)	28.0	31.5	35.0									
75	2.6(0.27)	30.0	33.7	37.5									
80	2.5(0.25)	32.0	36.0	40.0									
90	2.2(0.22)	36.0	40.5	45.0									
12	6	15	18.3(1.87)	6.0	6.8	7.5	SWF12-15				Type D-L		
		20	13.7(1.40)	8.0	9.0	10.0							
		25	11.0(1.12)	10.0	11.2	12.5							
		30	9.2(0.93)	12.0	13.5	15.0							
		35	7.8(0.80)	14.0	15.7	17.5							
		40	6.9(0.70)	16.0	18.0	20.0							
		45	6.1(0.62)	18.0	20.2	22.5							
		50	5.5(0.56)	20.0	22.5	25.0	137						
		55	5.0(0.51)	22.0	24.7	27.5	14						
		60	4.6(0.47)	24.0	27.0	30.0							
		65	4.2(0.43)	26.0	29.2	32.5							
		70	3.9(0.40)	28.0	31.5	35.0							
75	3.7(0.37)	30.0	33.7	37.5									
80	3.4(0.35)	32.0	36.0	40.0									
90	3.1(0.31)	36.0	40.5	45.0									
14	7	20	17.7(1.80)	8.0	9.0	10.0	SWF14-20				Type D-L		
		25	14.1(1.44)	10.0	11.2	12.5							
		30	11.8(1.20)	12.0	13.5	15.0							
		35	10.1(1.03)	14.0	15.7	17.5							
		40	8.8(0.90)	16.0	18.0	20.0							
		45	7.8(0.80)	18.0	20.2	22.5							
		50	7.1(0.72)	20.0	22.5	25.0	177						
		55	6.4(0.65)	22.0	24.7	27.5	18						
		60	5.9(0.60)	24.0	27.0	30.0							
		65	5.4(0.55)	26.0	29.2	32.5							
		70	5.0(0.51)	28.0	31.5	35.0							
		75	4.7(0.48)	30.0	33.7	37.5							
80	4.4(0.45)	32.0	36.0	40.0									
90	3.9(0.40)	36.0	40.5	45.0									
100	3.5(0.36)	40.0	45.0	50.0									

D	d	L	ばね定数		F=L×40%		F=L×45%		F=L×50%		型式		
			N/mm(kgf/mm)	Fmm	荷重 N(kgf)	Fmm	荷重 N(kgf)	Fmm	荷重 N(kgf)				
16	8	20	20.6(2.10)	8.0	9.0	10.0	SWF16-20				Type D-L		
		25	16.5(1.68)	10.0	11.2	12.5							
		30	13.7(1.40)	12.0	13.5	15.0							
		35	11.8(1.20)	14.0	15.7	17.5							
		40	10.3(1.05)	16.0	18.0	20.0							
		45	9.2(0.93)	18.0	20.2	22.5							
		50	8.2(0.84)	20.0	22.5	25.0							
		55	7.5(0.76)	22.0	24.7	27.5	206						
		60	6.9(0.70)	24.0	27.0	30.0	21						
		65	6.3(0.65)	26.0	29.2	32.5							
		70	5.9(0.60)	28.0	31.5	35.0							
		75	5.5(0.56)	30.0	33.7	37.5							
80	5.1(0.53)	32.0	36.0	40.0									
90	4.6(0.47)	36.0	40.5	45.0									
100	4.1(0.42)	40.0	45.0	50.0									
125	3.3(0.34)	50.0	56.3	62.5									
18	9	20	25.5(2.60)	8.0	9.0	10.0	SWF18-20				Type D-L		
		25	20.4(2.08)	10.0	11.2	12.5							
		30	17.0(1.73)	12.0	13.5	15.0							
		35	14.6(1.49)	14.0	15.7	17.5							
		40	12.7(1.30)	16.0	18.0	20.0							
		45	11.3(1.16)	18.0	20.2	22.5							
		50	10.2(1.04)	20.0	22.5	25.0							
		55	9.3(0.95)	22.0	24.7	27.5	255						
		60	8.5(0.87)	24.0	27.0	30.0	26						
		65	7.8(0.80)	26.0	29.2	32.5							
		70	7.3(0.74)	28.0	31.5	35.0							
		75	6.8(0.69)	30.0	33.7	37.5							
80	6.4(0.65)	32.0	36.0	40.0									
90	5.7(0.58)	36.0	40.5	45.0									
100	5.1(0.52)	40.0	45.0	50.0									
125	4.1(0.42)	50.0	56.3	62.5									
20	11	20	31.4(3.20)	8.0	9.0	10.0	SWF20-20				Type D-L		
		25	25.1(2.56)	10.0	11.2	12.5							
		30	20.9(2.13)	12.0	13.5	15.0							
		35	17.9(1.83)	14.0	15.7	17.5							
		40	15.7(1.60)	16.0	18.0	20.0							
		45	13.9(1.42)	18.0	20.2	22.5							
		50	12.6(1.28)	20.0	22.5	25.0							
		55	11.4(1.16)	22.0	24.7	27.5	314						
		60	10.5(1.07)	24.0	27.0	30.0	32						
		65	9.7(0.98)	26.0	29.2	32.5							
		70	9.0(0.91)	28.0	31.5	35.0							
		75	8.4(0.85)	30.0	33.7	37.5							
80	7.8(0.80)	32.0	36.0	40.0									
90	7.0(0.71)	36.0	40.5	45.0									
100	6.3(0.64)	40.0	45.0	50.0									
125	5.0(0.51)	50.0	56.2	62.5									
150	4.2(0.43)	60.0	67.5	75.0									
22	11	25	31.4(3.20)	10.0	11.2	12.5	SWF22-25				Type D-L		
		30	26.2(2.67)	12.0	13.5	15.0							
		35	22.4(2.29)	14.0	15.7	17.5							
		40	19.6(2.00)	16.0	18.0	20.0							
		45	17.4(1.78)	18.0	20.2	22.5							
		50	15.7(1.60)	20.0	22.5	25.0							
		55	14.3(1.45)	22.0	24.7	27.5							
		60	13.1(1.33)	24.0	27.0	30.0	392						
		65	12.1(1.23)	26.0	29.2	32.5	36						
		70	11.2(1.14)	28.0	31.5	35.0							
		75	10.5(1.07)	30.0	33.7	37.5							
		80	9.8(1.00)	32.0	36.0	40.0							
90	8.7(0.89)	36.0	40.5	45.0									
100	7.8(0.80)	40.0	45.0	50.0									
125	6.3(0.64)	50.0	56.2	62.5									
150	5.2(0.53)	60.0	67.5	75.0									

■材質 ばね用オイルテンパー線
●荷重の算出方法：荷重=ばね定数×タワミ量
(国際単位) N=N/mm×Fmm
(kgf=kgf/mm×Fmm
(kgf=N×0.101972)

●荷重グラフ参照 P.1532
●コイルスプリング使用上の注意参照 P.1533

D	d	L	ばね定数		F=L×40%		F=L×45%		F=L×50%		型式
			N/mm(kgf/mm)	Fmm	荷重 N(kgf)	Fmm	荷重 N(kgf)	Fmm	荷重 N(kgf)		
25	13.5	25	39.2(4.00)	10.0	11.2	12.5	SWF25-25				Type D-L
		30	32.7(3.33)	12.0	13.5	15.0					
		35	28.0(2.86)	14.0	15.7	17.5					
		40	24.5(2.50)	16.0	18.0</						