



COIL SPRINGS ACC. TO ISO 10243

COIL SPRINGS ACC. TO JIS-STANDARDS



Rectangular Wire	ISWLG		ISWG		ISWB		ISWR		ISWY		ISWS	
	Extra Light		Light		Medium		Strong		Extra Strong		Ultra Strong	
	Max. Defl. 50% L0	Max. Defl. 40% L0	Max. Defl. 37.5% L0	Max. Defl. 30% L0	Max. Defl. 25% L0	Max. Defl. 15% L0						
DH	Dd	L0	R ± 10%	R ± 10%	R ± 10%	R ± 10%	R ± 10%	R ± 10%	R ± 10%	R ± 10%	R ± 10%	R ± 10%
mm	mm	mm	N/mm	N/mm	N/mm	N/mm	N/mm	N/mm	N/mm	N/mm	N/mm	N/mm
10	5	25	8.5	11	16	23	36.8	167				
10	5	32	6.5	8.5	13	17.5	27.9	130				
10	5	38	5.5	6.8	11.9	14.8	23.7	105				
10	5	44	4.8	6	10.3	13	19.2	86				
10	5	51	4.2	5	8.9	11.2	16.5	79				
10	5	64	3.3	4.1	7.5	9.2	13.2	62				
10	5	76	2.7	3.6	6.2	7.5	10.9	51				
10	5	115	-	-	-	4.8	-	-				
10	5	305	0.7	0.9	1.6	1.9	2.6	11.5				
12.5	6.3	25	16	21	30	42.1	58.5	288				
12.5	6.3	32	12.2	16.4	24.8	33.2	43.9	216				
12.5	6.3	38	10.3	13.6	21.4	29.3	36	176				
12.5	6.3	44	8.7	12.1	18	24.6	30.3	149				
12.5	6.3	51	7.5	10.3	15.5	19.6	26.2	128				
12.5	6.3	64	5.8	7.6	12.1	15	21.2	100				
12.5	6.3	76	4.7	6.3	10.2	13.2	17.1	84				
12.5	6.3	89	4.1	5.4	8.4	11.4	14.5	71				
12.5	6.3	102	3.6	4.1	6.3	8.4	12.7	61				
12.5	6.3	305	1.3	1.6	2.4	3.2	4.3	22				
16	8	25	20.2	29	49.4	75.7	118	-				
16	8	32	16	22.9	38.5	60.2	89	63.3				
16	8	38	12.3	19.3	33.9	50.8	72.1	363				
16	8	44	10.6	17.1	30	42.8	60.9	309				
16	8	51	8.9	14	26.4	37.1	52.3	256				
16	8	64	7	10.7	20.5	30.3	41.2	203				
16	8	76	5.8	9	17.8	25.7	34.1	166				
16	8	89	4.8	7.3	15.2	21.7	29.5	139				
16	8	102	4.1	6.8	13.5	18.9	25.6	114				
16	8	115	3.9	6.6	11.8	15.7	22.4	105				
16	8	127	-	-	-	-	-	94				
16	8	152	-	-	-	-	-	78				
16	8	305	1.5	2.3	4.3	6.3	8.4	38.8				
20	10	25	29.4	55.8	98	216	293	-				
20	10	32	22.6	45	72.6	168	224	-				
20	10	38	18.6	36	56	129	177	-				
20	10	44	15.7	30	47.5	112	149	452				
20	10	51	13.7	24.5	41.7	94	128	378				
20	10	64	11.3	19.2	32.3	72.1	99	301				
20	10	76	9.8	16	25.1	59.7	81.7	247				
20	10	89	8.3	14	22	50.5	69.5	208				
20	10	102	7.4	12	19.8	44.2	60.6	188				
20	10	115	6.4	10.9	18.1	38.4	53	159				
20	10	127	5.9	9.5	16.6	34.1	47.5	146				
20	10	139	5.4	8.4	15.1	31	43	-				
20	10	152	4.9	7.5	13.2	28.2	39	120				
20	10	178	-	7.1	-	-	-	-				
20	10	305	2.5	4	6.1	14	20	60				
25	12.5	25	53.9	105	157	375	459	-				
25	12.5	32	42.2	80.3	118	297	374	-				
25	12.5	38	35.8	62	93	219	300	-				
25	12.5	44	31.4	52.9	80.8	187	244	1158				
25	12.5	51	27	44	68.6	156	208	933				
25	12.5	64	21.6	35.2	53	123	161	644				
25	12.5	76	18.1	28	43.2	99	131	556				
25	12.5	89	15.2	24	38.2	84	111	462				
25	12.5	102	13.2	21.1	33	73	96.3	390				
25	12.5	115	11.8	18.7	28	65	85.7	360				
25	12.5	127	10.6	16.7	25.9	57.7	76.3	326				
25	12.5	139	9.6	15.3	23.2	52.7	66	-				
25	12.5	152	8.8	14	20.8	47.8	63.5	255				
25	12.5	178	7.6	12.5	17.8	41	53.9	230				
25	12.5	203	6.7	10.4	15.8	35.8	47	202				
25	12.5	305	4.4	7	10.2	22.9	30.9	136				
32	16	38	43.1	98	185	388	480	-				
32	16	44	37.3	79.5	158	324	390	1300				
32	16	51	32.4	67	134	272	336	1150				
32	16	64	25.5	53	99	212	269	1077				
32	16	76	21.6	44	80.5	172	219	874				
32	16	89	18.1	37.2	69.1	141	180	721				
32	16	102	15.7	32	58.8	122	155	620				
32	16	115	14.2	29	51.5	107	140	560				
32	16	127	12.7	25	44.8	93	124	496				
32	16	139	11.6	23	42.3	86	112	-				
32	16	152	10.6	21.5	37.8	78	102	408				
32	16	178	9	18.2	32.5	67.2	88.2	353				
32	16	203	7.8	15.8	28.9	59.1	76	304				
32	16	254	6.4	12.5	22.2	46.4	60.8	243				
32	16	305	5.3	10.3	18.3	38	49	196				
40	20	51	48.1	92	182	350	628	-				
40	20	64	39.2	73	140	269	487	1128				
40	20	76	33.3	63	108	219	379	1017				
40	20	89	28.4	51	90.7	190	321	880				
40	20	102	24.5	45	81	163	281	762				
40	20	115	22.1	39.6	71.8	142	245	679				
40	20	127	19.6	36	62.7	128	221	622				
40	20	139	17.7	32	57.5	115	185	-				
40	20	152	16.2	28	51.6	105	168	509				
40	20	178	13.7	25.2	44.1	89	150	429				
40	20	203	12.3	21.8	36.7	77	132	374				
40	20	254	9.8	17	30.1	61	107	296				
40	20	305	8.3	14.8	24.6	51	87.8	246				
50	25	64	86.3	156	209	413	709	1980				
50	25	76	70.6	125	168	339	572	1811				
50	25	89	59.8	109	140	288	475	1410				
50	25	102	52	94	119	245	405	1215				
50	25	115	46.1	81	106	215	352	1076				
50	25	127	42.2	71	97	192	316	968				
50	25	139	38.2	66.5	87	168	289	898				
50	25	152	34.3	60	80	154	255	806				
50	25	178	29.4	52	69.5	134	215	698				
50	25	203	25.5	44	59.8	117	187	612				
50	25	229	-	-	50.9	-	-	-				
50	25	254	20.6	35	46	89	153	472				
50	25	305	17.2	28.5	38.6	73	127	388				
63	38	76	57.8	189	320	618	952	1900				
63	38	89	51.4	158	260	515	819	1517				
63	38	102	44.4	131	221	438	700	1295				
63	38	115	38	116	187	370	620	1070				
63	38	127	33.2	103	168	333	565	979				
63	38	152	27.4	84.3	136	269	458	775				
63	38	178	24	71.5	114	226	384	630				
63	38	203	21	61.7	100	198	337	546				
63	38	229	-	-	89.2	-	-	-				
63	38	254	16.4	47	78.4	155	263	423				
63	38	305	13.6	38.2	64.7	128	218	349				

Round Wire	ISWTG		ISWTB		ISWTR		ISWTY		ISWL	
	Light		Medium		Strong		Extra Strong			
	Max. Defl. 40% L0	Max. Defl. 37.5% L0	Max. Defl. 30% L0	Max. Defl. 25% L0	Max. Defl. 30% L0	Max. Defl. 25% L0	Max. Defl. 30% L0	Max. Defl. 25% L0	Max. Defl. 32% L0	Max. Defl. 32% L0
DH	Dd	L0	R ± 10%	R ± 10%	R ± 10%	R ± 10%	R ± 10%	R ± 10%	R ± 10%	R ± 10%
mm	mm	mm	N/mm	N/mm	N/mm	N/mm	N/mm	N/mm	N/mm	N/mm
6.3	4.4	16	1.6	4.7	12.7	33.0				
6.3	4.4	25	1.0	2.9	7.7	19.8				
6.3	4.4	38	0.6	1.8	4.9	11.9				
6.3	4.4	51	0.5	1.5	3.7	9.5				
8.3	5.9	16	2.5	5.4	12.5	30.9				
8.3	5.9	25	1.6	3.6	6.9	23.0				
8.3										