

Wheel Fanatyk Tension Chart

reading	spoke center section thickness - steel																		aluminum		titanium	
	0.90mm Ø		0.95mm Ø		1.2mm Ø		1.5mm Ø		1.7mm Ø		1.8mm Ø		2.0mm Ø		2.3mm Ø		2.6mm Ø		Ksyrium		2.0mm Ø	
	tension-newtons	tension-kgf	tension-newtons	tension-kgf	tension-newtons	tension-kgf	tension-newtons	tension-kgf	tension-newtons	tension-kgf	tension-newtons	tension-kgf	tension-newtons	tension-kgf	tension-newtons	tension-kgf	tension-newtons	tension-kgf	tension-newtons	tension-kgf	tension-newtons	tension-kgf
0.20	1603	163	1459	149	1623	165	1609	164	1435	146	1580	161	1471	150	1228	125	1471	109	1698	173	1626	166
0.25	1371	140	1253	128	1407	143	1305	133	1222	125	1137	116	1163	119	933	95	1471	73	1236	126	1275	130
0.30	1177	120	1080	110	1221	124	1065	109	1037	106	869	89	927	95	707	72	1471	48	954	97	1019	104
0.35	1016	104	936	95	1060	108	877	89	878	89	692	71	750	76	540	55	1471	31	766	78	835	85
0.40	884	90	816	83	923	94	732	75	741	76	568	58	616	63	418	43	1471	21	634	65	703	72
0.45	776	79	716	73	806	82	621	63	626	64	478	49	514	52	331	34	1471	14	536	55	608	62
0.50	688	70	633	65	708	72	536	55	527	54	409	42	434	44	266	27	1471	6	461	47	536	55
0.55	617	63	565	58	625	64	472	48	443	45	355	36	370	38	211	22			403	41	477	49
0.60	560	57	507	52	556	57	422	43	372	38	312	32	315	32	156	16			356	36	424	43
0.65	514	52	457	47	498	51	381	39	309	32	278	28	266	27	87	9			318	32	371	38
0.70	476	49	415	42	451	46	346	35	253	26	249	25	222	23					286	29	318	32
0.75	444	45	377	38	411	42	315	32	200	20	225	23	184	19					259	26	264	27
0.80	416	42	343	35	378	38	286	29	149	15	204	21	153	16					237	24	215	22
0.85	391	40	312	32	350	36	257	26	95	10	187	19	134	14					217	22	177	18

About center section thickness

- 0.90 - 0.95mm - thin aero spokes (DT Aerolite, Sapim CX-Ray). Measure across thinnest section.
- 1.2mm - aero spokes and blades (Wheelsmith AE-15, Sapim CX Speed, DT New Aero).
- 1.5mm - super-light, butted spokes (DT Revolution, Sapim Laser, or Wheelsmith XL-14).
- 1.7 and 1.8mm - most 14g butted spokes.
- For straight gauges, 1.8mm = 15g, 2.0mm = 14g, 2.3mm = 13g, and 2.6mm = 12g.

How to read the chart - 3 steps

1. Determine the spoke thickness where it is being measured. This is all that counts. It does not matter whether the spoke is bladed or butted. Thickness at measurement (which must be constant) is the only consideration.
2. Measure the spoke deflection and find that reading in the left column.
3. Move along that row to the column labeled with your spoke thickness. Here is your tension in newtons or kilograms.