

# Rolling Resistance / Snakebite Test



Date: 30.05.2012  
 Tested for: Fietsersbond  
 Load: 50kg

No.:	Tyre				Tube	6bar		4bar		Average (Watt)	Average (RW-coefficient)	Defect at height (cm) 4 bar with rounded Edge rim exal 622-19C		Average (cm)
	Type Trekking- Standard 28"	Air-Pressure (bar)	Weight (g)	Width (mm) 4bar		Speed (km/h)						1	2	
						25	20	25	20					
1	Continental Contact 2 37-622 B/B+RT C269 Safety System	max. 6.0	597,20	32,71	17 SV	x	x	37,90	29,00	33,45	0,01091	40,0	40,0	40,00
2	CST Control 37-622 B/B+RT Sensamo Line Control	3,4-5,1	744,80	35,81	17 SV	x	x	31,00	23,70	27,35	0,00892	60,0	60,0	60,00
3	Continental Top Contact 2 Folding 37-622 B/B-SK+RT C270 Vectran Breaker	max. 6.0	591,40	34,09	17 SV	x	x	33,40	25,80	29,60	0,00966	50,0	50,0	50,00
4	CST Sensamo Speed 35-622 B/B-SK+RT	3,4-5,1	418,00	33,06	17 SV	x	x	29,60	22,80	26,20	0,00855	35,0	30,0	32,50
5	CST Sensamo Sumo 37-622 B/B+RT Anti Puncture	3,4-5,1	948,00	32,90	17 SV	x	x	54,40	43,60	49,00	0,01598	75,0	80,0	77,50
6	Vittoria Randonneur 37-622 B/B-SK+RT Double Shielding	max. 5.0	683,80	33,27	17 SV	x	x	40,00	31,00	35,50	0,01158	60,0	55,0	57,50
7	CST Reach 37-622 B/B+RT	3,4-5,1	688,80	35,70	17 SV	x	x	29,20	22,30	25,75	0,00840	45,0	40,0	42,50
8	Vredestein Perfect Tour 37-622 B/B+RT	3,8-5,5	659,40	35,44	17 SV	x	x	28,80	22,00	25,40	0,00829	50,0	50,0	50,00
9	Continental Top Contact Winter 2 37-622 B/B-SK+RT C276 Poly X Breaker	max. 6.0	550,00	31,18	17 SV	x	x	35,60	27,10	31,35	0,01023	45,0	45,0	45,00
10	Vittoria E-Rando 37-622 B/B-SK+RT Double Shielding	4,0-6,0	630,20	33,14	17 SV	x	x	38,60	29,50	34,05	0,01111	55,0	55,0	55,00
11	Vredestein Perfect-E 37-622 B/B-SK+RT Puncture Resistant, OSP Compound	3,8-5,5	679,80	35,54	17 SV	x	x	28,00	21,70	24,85	0,00811	50,0	50,0	50,00
12	Continental Touring Plus 37-622 B/B+RT C235 Puncture Belt	max. 5.0	741,80	31,45	17 SV	x	x	50,40	38,70	44,55	0,01453	60,0	55,0	57,50
13	Vittoria Randonneur Hyper Folding 37-622 B/B-SK+RT Triplee Shielding	4,0-6,0	407,60	36,04	17 SV	x	x	23,10	17,90	20,50	0,00669	30,0	30,0	30,00
14	Schwalbe Marathon 37-622 B/B+RT HS420 Performance Line, Green Guard	4,0-6,0	739,60	32,14	17 SV	x	x	28,80	21,80	25,30	0,00825	60,0	65,0	62,50
15	Schwalbe Marathon Plus 37-622 B/B+RT HS348 Performance Line, Smart Guard	3,5-6,0	906,00	33,08	17 SV	x	x	32,10	24,60	28,35	0,00925	75,0	80,0	77,50
16	Schwalbe Energizer Pro 37-622 B/B-SK+RT HS427 Performance Line, Race Guard, Lite Skin	4,0-6,0	534,80	32,99	17 SV	x	x	31,00	24,10	27,55	0,00899	50,0	45,0	47,50
17	Schwalbe Kojak Folding 35-622 B/B-SK+RT HS385 Performance Line, Race Guard	4,0-6,5	338,00	32,09	17 SV	x	x	33,10	25,50	29,30	0,00956	40,0	40,0	40,00
18	Schwalbe Marathon Racer Folding 40-622 B/B-SK+RT HS429 Evo, HD Speed Guard	4,5-6,5	380,80	37,73	17 SV	x	x	32,40	24,50	28,45	0,00928	60,0	60,0	60,00
19	Panaracer Pissala 37-622 B/B-SK Tour Guard, Kevlar	3,0-6,2	517,00	36,00	17 SV	x	x	30,50	23,70	27,10	0,00884	xxx	xxx	xxx
20	Gran Bois 30-622 B/C-SK	5,2-6,7	281,40	31,84	17 SV	19,00	14,80	23,40	18,10	18,83	0,00614	xxx	xxx	xxx

No.:	Tyre				Tube	4bar		2,5bar		Average (Watt)	Average (RW-coefficient)	Defect at height (cm) 2,5 bar with rounded Edge rim exal 622-19C		Average (cm)
	Type Trekking- Standard 28"	Air-Pressure (bar)	Weight (g)	Width (mm) bar		Speed (km/h)						1	2	
						25	20	25	20					
1	Vredestein Moiree 54-622 B/B+RT Puncture Resistant, OSP Compound	2,5-4,0	1118,80	51,97	19 SV	25,70	19,90	33,00	25,20	25,95	0,00846	75,0	70,0	72,50
2	Continental Cruise Contact 50-622 B/B+RT C292 Safety System	max. 4.5	971,20	49,75	19 SV	33,70	25,30	41,60	31,90	33,13	0,01081	60,0	60,0	60,00
3	CST Zeppelin 50-622 B/B+RT	2,8-4,5	1047,40	50,65	19 SV	24,20	18,70	31,40	24,00	24,58	0,00802	60,0	60,0	60,00
4	Schwalbe Big Apple 50-622 B/B-SK+RT HS430 Performance Line, Race Guard, Lite Skin	2,5-5,0	738,80	46,45	19 SV	27,80	21,60	35,30	27,20	27,98	0,00913	xxx	xxx	xxx
5	Schwalbe Big Apple 55-622 B/B-SK+RT HS430 Performance Line, Race Guard, Lite Skin	2,0-4,0	836,40	53,89	19 SV	24,70	19,30	32,10	24,50	25,15	0,00820	70,0	70,0	70,00
6	Schwalbe Big Apple 60-622 B/B-SK+RT HS430 Performance Line, Race Guard, Lite Skin	2,0-4,0	904,40	57,20	19 SV	27,10	20,90	33,40	25,70	26,78	0,00873	xxx	xxx	xxx

# Puncture Protection

Tested for: Fietsersbond  
Date: 30.05.2012

No.	Tyre	Air-Pressure (bar)	Weight (g)	Disassembled					
				Plunger-Test with 1,5mm plunger			Plunger-Test (Chisel-shaped 5mm) 0° in direction		
				Average F-max (N)	Average S-(Fmax) (mm)	Average W-(Fmax) (Nm)	Average F-max (N)	Average S-(Fmax) (mm)	Average W-(Fmax) (Nm)
1	Continental Contact 2 37-622 B/B+RT C269 Safety System	max. 6,0	597,20	139,32	7,71	0,34	552,88	7,87	1,11
2	CST Control 37-622 B/B+RT Sensamo Line Control	3,4-5,1	744,80	114,80	6,91	0,24	486,31	8,42	1,26
3	Continental Top Contact 2 Folding 37-622 B/B-SK+RT C270 Vectran Breaker	max. 6,0	591,40	190,94	8,70	0,59	550,76	8,70	1,73
4	CST Sensamo Speed 35-622 B/B-SK+RT	3,4-5,1	418,00	178,42	7,38	0,37	625,24	8,47	1,45
5	CST Sensamo Sumo 37-622 B/B+RT Anti Puncture	3,4-5,1	948,00	137,01	12,59	0,70	526,67	13,11	2,25
6	Vittoria Randonneur 37-622 B/B-SK+RT Double Shielding	max. 5,0	683,80	137,30	7,97	0,39	533,97	7,77	1,18
7	CST Reach 37-622 B/B+RT	3,4-5,1	688,80	96,96	6,77	0,25	391,65	7,81	1,01
8	Vredestein Perfect Tour 37-622 B/B+RT	3,8-5,5	659,40	128,92	6,76	0,27	495,77	7,97	1,22
9	Continental Top Contact Winter 2 37-622 B/B-SK+RT C276 Poly X Breaker	max. 6,0	550,00	161,40	7,48	0,33	572,82	7,82	1,23
10	Vittoria E-Rando 37-622 B/B-SK+RT Double Shielding	4,0-6,0	630,20	140,89	6,90	0,29	594,43	7,55	1,51
11	Vredestein Perfect-E 37-622 B/B-SK+RT Puncture Resistant, OSP Compound	3,8-5,5	679,80	116,98	6,85	0,25	471,55	8,17	1,21
12	Continental Touring Plus 37-622 B/B+RT C235 Puncture Belt	max. 5,0	741,80	106,82	10,30	0,51	345,96	9,96	1,36
13	Vittoria Randonneur Hyper Folding 37-622 B/B+RT HS420 Tripleeee Shielding	4,0-6,0	407,60	159,10	7,26	0,31	607,36	7,30	1,26
14	Schwalbe Marathon 37-622 B/B+RT HS420 Performance Line, Green Guard	4,0-6,0	739,60	142,09	9,75	0,43	478,66	10,47	1,51
15	Schwalbe Marathon Plus 37-622 B/B+RT HS348 Performance Line, Smart Guard	3,5-6,0	906,00	149,18	11,30	0,63	511,06	12,26	2,13
16	Schwalbe Energizer Pro 37-622 B/B-SK+RT HS427 Performance Line, Race Guard, Lite Skin	4,0-6,0	534,80	209,51	7,73	0,49	606,35	7,82	1,52
17	Schwalbe Kojak Folding 35-622 B/B-SK+RT HS385 Performance Line, Race Guard	4,0-6,5	338,00	255,12	6,95	0,55	650,08	7,27	1,40
18	Schwalbe Marathon Racer Folding 40-622 B/B-SK+RT HS429 Evo, HD Speed Guard	4,5-6,5	380,80	312,92	7,77	0,59	677,14	7,91	1,55
19	Panaracer Pasela 37-622 B/B-SK Tour Guard, Kevlar	3,0-6,2	517,00	206,47	7,35	0,40	-	-	-
20	Gran Bois 30-622 B/C-SK	5,2-6,7	281,40	119,84	6,60	0,24	-	-	-

No.	Tyre	Air-Pressure (bar)	Weight (g)	Disassembled					
				Plunger-Test with 1,5mm plunger (with blocks)			Plunger-Test (Chisel-shaped 5mm) 0° in direction (with blocks)		
				Average F-max (N)	Average S-(Fmax) (mm)	Average W-(Fmax) (Nm)	Average F-max (N)	Average S-(Fmax) (mm)	Average W-(Fmax) (Nm)
1	Vredestein Moiree 54-622 B/B+RT Puncture Resistant, OSP Compound	2,5-4,0	1118,80	109,72	6,67	0,24	514,42	8,29	1,34
2	Continental Cruise Contact 50-622 B/B+RT C292 Safety System	max. 4,5	971,20	134,60	6,83	0,32	575,44	7,47	1,21
3	CST Zeppelin 50-622 B/B+RT	2,8-4,5	1047,40	102,89	6,54	0,22	417,39	7,84	0,99
4	Schwalbe Big Apple 55-622 B/B-SK+RT HS430 Performance Line, Race Guard, Lite Skin	2,5-5,0	738,80	178,90	8,11	0,47	533,86	8,28	1,41