

Appendix A

Selected Data from other Literature for Compressive Strength of Nanosilica & Steel Fiber Concrete

Ref.	Ns%	Vf%	Fiber Type	Lf/Df	Bf	f'c	f'cf
Beigi,et al(2013) ^[40]	0	0.2	Straight	0.65	0.5	73	74.3
	0	0.3	Straight	0.65	0.5	73	81.5
	0	0.5	Straight	0.65	0.5	73	78
	2	0.2	Straight	0.65	0.5	75.2	77.5
	2	0.3	Straight	0.65	0.5	75.2	82.7
	2	0.5	Straight	0.65	0.5	75.2	79.2
	4	0.2	Straight	0.65	0.5	85.7	85.7
	4	0.3	Straight	0.65	0.5	88	88
	4	0.5	Straight	0.65	0.5	87.2	87.2
	6	0.2	Straight	0.65	0.5	85.4	85.2
	6	0.3	Straight	0.65	0.5	85.4	86.7
	6	0.5	Straight	0.65	0.5	85.4	86.1
Mukharjee&Barai(2013) ^[82]	0	-	-	-	-	41	41
	0.75	-	-	-	-	41	45
	1.5	-	-	-	-	41	49
	3	-	-	-	-	41	54
Sohrabi&Karbalaie(2011) ^[83]	0	-	-	-	-	39.68	39.68
	2	-	-	-	-	39.68	49.48
Boshehrian&Hosseini(2011) ^[36]	0	-	-	-	-	58.7	58.7
	1	-	-	-	-	58.7	62.7
	2	-	-	-	-	58.7	68.2
	3	-	-	-	-	58.7	73.3
Elkady et al,(2013) ^[84]	0	-	-	-	-	356	356
	1	-	-	-	-	356	377
	1.5	-	-	-	-	356	381
	2	-	-	-	-	356	382
Graybeal &Davis(2008) ^[85]	0	2	Straight	0.65	0.5	155.2	189.1
	0	2	Straight	0.65	0.5	155.2	190.9
	0	2	Straight	0.65	0.5	170.3	197.8
	0	2	Straight	0.65	0.5	170.3	198.5
	0	2	Straight	0.65	0.5	157	203.7
	0	2	Straight	0.65	0.5	157	199.3
	0	2	Straight	0.65	0.5	148.4	186.6
	0	2	Straight	0.65	0.5	148.4	170.8
	0	2	Straight	0.65	0.5	143	182.6
	0	2	Straight	0.65	0.5	143	176.8
	0	2	Straight	0.65	0.5	143.3	197.3

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	0	2	Straight	0.65	0.5	143.3	179.9
Cwirzen et al,(2008) ^[86]	0	2	Straight	0.12	0.5	184	202
	0	3	Straight	0.12	0.5	176	202
Yang et al.(2007) ^[87]	0	1	Straight	0.65	0.5	155.97	166.27
	0	1.5	Straight	0.65	0.5	155.97	173.73
	0	2	Straight	0.65	0.5	155.97	176.3
	0	3	Straight	0.65	0.5	155.97	179.17
Al-Neaime(2006) ^[88]	0	2	Straight	0.72	0.5	95.76	109.25
	0	2	Straight	0.72	0.5	128	133.48
Bouneau et al.(1997) ^[89]	0	2	Straight	0.812	0.5	163	217

Selected Data from other Literature for Splitting Tensile Strength of Nanosilica & Steel Fiber Concrete

Ref.	Ns %	Vf%	Fiber Type	Lf/Df	Bf	f'c	f'cf	f'spf
Voo,et al.(2006) ^[44]	0	2.5	Straight	0.65	0.5	-	161	19.2
	0	2.5	Straight	0.65	0.5	-	160	20.9
	0	2.5	Straight	0.65	0.5	-	149	21.9
	0	1.25	Straight	0.65	0.5	-	164	18
	0	2.5	Hooked	0.60	0.75	-	171	22.4
	0	2.5	Hooked	0.60	0.75	-	157	18.3
	0	2.5	Hooked	0.60	0.75	-	169	23.5
Voo,et al.(2002) ^[42]	0	2	Straight	0.65	0.5	-	162	22
Yang et al.(2007) ^[87]	0	1	Straight	0.65	0.5	155.97	166.27	14.67
	0	1.5	Straight	0.65	0.5	155.97	173.73	18.63
	0	2	Straight	0.65	0.5	155.97	176.3	21.9
	0	3	Straight	0.65	0.5	155.97	179.17	22.53
Al-Neaime(2006) ^[88]	0	2	Straight	0.72	0.5	95.76	109.25	17.56
	0	2	Straight	0.72	0.5	128	133.48	18.3

Selected Data from other Literature for Modulus of Rupture of Nanosilica & Steel Fiber Concrete

Ref.	Ns %	Vf%	Fiber Type	Lf/Df	Bf	f'c	f'cf	f'rf
Boshehrian&Hosseini2011 ^[36]	0	-	-	-	-	58.7	58.7	6.5
	1	-	-	-	-	58.7	62.7	7.1
	2	-	-	-	-	58.7	68.2	7.9
	3	-	-	-	-	58.7	73.3	8.9
Wen-yu, et al ^[90]	0	2	Straight	0.65	0.5	-	166.9	20.6
	0	2	Straight	0.65	0.5	-	145.8	21.1
Fujikake, et al.(2006) ^[91]	0	2	Straight	0.75	0.5	-	214.7	40
Gao,et al.(2005)[92]	0	2	Straight	0.59	0.5	-	168.6	20.6
Cwirzen ,et al.(2008) ^[86]	0	2	Straight	0.120	0.5	184	202	26
	0	3	Straight	0.120	0.5	176	202	36
Voo,et al.(2002) ^[42]	0	2	Straight	0.65	0.5	-	162	20
Yang, et al.(2007) ^[44]	0	1	Straight	0.65	0.5	155.97	166.27	16.65
	0	1.5	Straight	0.65	0.5	155.97	173.73	22.71
	0	2	Straight	0.65	0.5	155.97	176.3	28.05
	0	3	Straight	0.65	0.5	155.97	179.17	34.51