

**MATERIAL DATA SHEET**  
**ASTM A820 Type I**  
**Steel Fiber Reinforcement for Concrete**

<b>Fiber Type:</b>	Cold Drawn-Wire Steel
<b>Configuration:</b>	NyconSF Type I fibers are continuously deformed steel fibers with a semi-circular cross-section.
<b>Diameter:</b>	The equivalent diameter of NyconSF Type I drawn-wire steel fibers is 0.035" (0.889mm). Per ASTM A820, Section 8.2.2 the equivalent diameter shall not vary more than $\pm$ 10%.
<b>Aspect Ratio:</b>	.75" (19mm) fiber 21 1" (25mm) fiber 29 1.5" (38mm) fiber 43 2" (50mm) fiber 57 2.5" (63mm) fiber 71
<b>Tensile Strength:</b>	Tensile strength of NyconSF Type I steel fibers shall be a minimum of 100 ksi (689 MPa). Per ASTM A820, Section 9.1 the average tensile strength shall not be less than 50 ksi (345MPa).
<b>Specific Gravity:</b>	7.86
<b>Bending:</b>	NyconSF Type I steel fibers meet the requirements of ASTM A820, Section 10.1 as to fiber ductility.
<b>Surface Conditions:</b>	NyconSF Type I steel fibers meet the requirements of STM A820, Sections 11.1 and 11.2.
<b>Modulus of Elasticity:</b>	29,000,000
<b>Melting Point:</b>	2760 degrees F (1516 degrees C)
<b>Specification:</b>	Steel fiber shall meet all the requirements of ASTM A820 Type I, Cold Drawn Wire. The fiber shall be made from cold drawn wire with a tensile strength of between 150 and 200 ksi (1,034-1,380 MPa). Fibers shall have an aspect ration of 30 to 60 and lengths ranging from 1-1/8" (30mm) to 2" (50mm). Steel fiber shall be distributed by Nycon, Inc., 101 Cross Street, Westerly, RI 02891- Street, Westerly, RI 02891-, Street, Westerly, RI 02891, Toll-free: 800 456 9266, Phone: 401 596 3955, Fax: 401 596 4242, E-mail: <a href="mailto:nycon@nycon.com">nycon@nycon.com</a> , on the Web: <a href="http://www.nycon.com">www.nycon.com</a> .