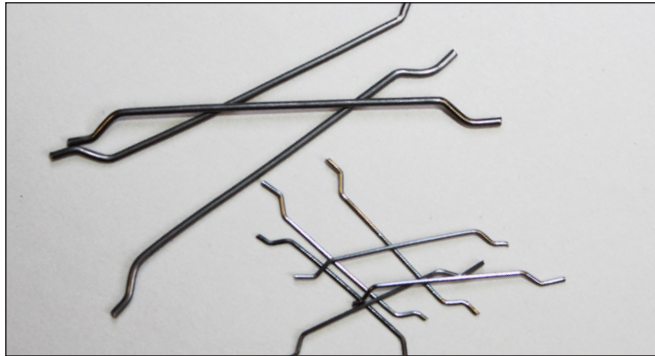


NYCON-SF TYPE I (HOOKED END)
High Performance Steel Fiber, ASTM A820



NYCON-SF TYPE I STEEL FIBERS are low-carbon, hooked-end, drawn wire for reinforced concrete. NYCON-SF fibers distribute stresses within the concrete and provide improvement to ductility.

NYCON-SF TYPE I (HOOKED END) Physical Properties

Filament Diameter	0.02" (0.5 mm), 0.035" (0.9 mm)
Fiber Length	1" (25 mm), 1.5" (38 mm)
Specific Gravity	7.8
Tensile Strength	165 ksi (1100 MPa)
Flexural Strength	29,000 ksi (203 GPa)
Melting Point	2760° F (1516° C)
Color	Gray
Water Absorption	Nil
Alkali Resistance	High
Corrosion Resistance	High

Description

NYCON-SF TYPE I "HOOKED END" steel fiber products are cold-drawn monofilament steel fibers for use in reinforced concrete and shotcrete. NYCON-SF TYPE I "HOOKED END" steel fibers are specifically designed for use in concrete products for the purpose of primary reinforcement and are available in loose or collated versions.

NYCON-SF TYPE I "HOOKED END" fibers meet the requirements of ASTM A820.

APPLICATIONS / DOSES	BENEFITS
Shrinkage Control Dosage: 20-30 lbs per CY, 10-15 kg/m ³	Length and count is a consideration. There are durability benefits provided at this dosage level.
Light Traffic and/or Static Loading Dosage: 30-40 lbs per CY, 15-20 kg/m ³	Steel fibers provide secondary shrinkage reinforcement and durability benefits. A degree of load carrying can be assigned to the steel fibers at the upper end of the dose range.
Medium Dynamic and/or Static Loading Dosage: 40-60 lbs per CY, 20-30 kg/m ³	Steel fibers provide secondary shrinkage reinforcement, durability benefits and for slab-on-grade. Shotcrete and precast products benefit from steel fibers.
Heavy Dynamic and/or Static Loading Dosage: 60-100 lbs per CY, 30-50 kg/m ³	At this dosage, steel fibers translate into enhanced engineering properties. Applications include runways, taxi-ways, tunnel liners, slope stabilization and jointless floors.
Special Applications Dosage: 100-160 lbs per CY, 50-80 kg/m ³	These applications include heavy-duty systems, such as ballistic blast walls.

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Advantages/Benefits	<ul style="list-style-type: none">• Provides multi-dimensional reinforcement.• Improves impact resistance of concrete.• Enhances durability and toughness of concrete.• Excellent finishability
Mixing	NYCON-SF steel fibers can be added directly to the mixing system during or after the batching of the ingredients and mixed at high speed for a minimum of five minutes. Additional mixing does not adversely affect the distribution or overall performance of NYCON-SF steel fibers. The addition of NYCON-SF steel fibers at the normal recommended dosage rate does not require any mix design or application changes. A water reducer or super-plasticizer is recommended in concrete products where improved workability and finishability are desired.
Tooling & Finishing	Fiber reinforced concrete can be finished by most finishing techniques. NYCON-SF steel fiber does not affect the finishing characteristics of concrete. NYCON-SF steel fiber can be used in power/hand troweled concrete, colored and broom finished concrete. NYCON-SF steel fiber can be pumped and placed using conventional equipment. Hand screeds can be used, but vibratory and laser screeds are recommended to provide added compaction and bury surface fibers.
Packaging	(50) 50 lb (22.7 kg) paper bags per pallet, 2500 lbs per pallet
Storage and Shelf Life	NYCON products should be stored in dry warehouse. Protect product from the rain.

KEEP CONTAINER TIGHTLY CLOSED - KEEP OUT OF REACH OF CHILDREN - NOT FOR INTERNAL CONSUMPTION - FOR INDUSTRIAL USE ONLY

All information provided by Nycon Corporation concerning Nycon products, including but not limited to, any recommendations and advice relating to the application and use of Nycon products, is given in good faith based on Nycon's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Nycon's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Nycon's control are such that Nycon assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the Nycon product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s).

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Nycon warrants this product for one year from date of shipment to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

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