

NYCON-SF TYPE V (CONTINUOUSLY DEFORMED)
High Performance Steel Fiber, ASTM A820



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

NYCON-SF TYPE V Physical Properties

Filament Diameter	0.046" (1.18 mm)
Fiber Length	1.5" (38 mm)
Specific Gravity	7.8
Tensile Strength	100 ksi (689 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 V steel fiber products are drawn, continuously deformed steel fibers for use in reinforced concrete and shotcrete.

NYCON-SF TYPE V steel fibers meet the requirements of ASTM A820.

APPLICATIONS	BENEFITS
Shrinkage Control Dosage: 20-30 lbs per CY, 10-15 kg/m ³	Length and count is a consideration. Impending or modifying crack growth is one of the benefits of a high fiber count. 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, a degree of load carrying capacity. Shotcrete and precast products also 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 ballistic blast walls and thin architectural panels.

800-456-9266

www.nycon.com

sales@nycon.com

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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 TYPE V 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 TYPE V steel fibers. The addition of NYCON-SF TYPE V 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	<p>Fiber reinforced concrete can be finished by most finishing techniques. NYCON-SF TYPE V steel fiber does not affect the finishing characteristics of concrete. NYCON-SF TYPE V steel fiber can be used in power/hand troweled concrete, colored and broom finished concrete.</p> <p>NYCON-SF TYPE V 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.</p>
Packaging	(40) 55 lb (25 kg) paper bags per pallet, 2200 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

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