

**NYCON-SF-B (TYPE V STEEL/SYNTHETIC BLEND)**  
 High Performance Steel Fiber and MULTIMESH® Nylon Fiber



**NYCON-SF-B** fibers are Type V steel fibers pre-blended with NYCON MULTIMESH synthetic fibers. NYCON-SF-B fibers provide a superior, high performance concrete.

**NYCON-SF-B (TYPE V BLEND) Physical Properties**

Filament Diameter	0.046" (1.18 mm) Steel & 8 Denier Nylon
Fiber Length	1.5" (38 mm) & 0.75" (19 mm)
Specific Gravity	7.8 & 1.1
Tensile Strength	100 ksi (689 MPa) & 44 ksi (300 MPa)
Flexural Strength	29,000 ksi (203 GPa) & 400 ksi (300 MPa)
Melting Point	2760° F (1516° C) & 435° F (325° C)
Color	Gray & White
Water Absorption	Nil & 3% by Weight
Alkali Resistance	High
Corrosion Resistance	High

**Description**

NYCON-SF TYPE V steel fibers are drawn, continuously deformed steel fibers that are blended with NYCON MULTIMESH nylon fibers at a ratio of 23 lb of Type V plus 1 lb of MULTIMESH.

*NYCON-SF TYPE V steel fibers meet the requirements of ASTM A820.  
 NYCON MULTIMESH fibers meet the requirements of ASTM C1116.*

APPLICATIONS	BENEFITS
<b>Shrinkage Control</b> Dosage: 20-30 lbs per CY, 10-15 kg/m <sup>3</sup>	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.
<b>Light Traffic and/or Static Loading</b> Dosage: 30-40 lbs per CY, 15-20 kg/m <sup>3</sup>	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.
<b>Medium Dynamic and/or Static Loading</b> Dosage: 40-60 lbs per CY, 20-30 kg/m <sup>3</sup>	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.
<b>Heavy Dynamic and/or Static Loading</b> Dosage: 60-100 lbs per CY, 30-50 kg/m <sup>3</sup>	At this dosage, steel fibers translate into enhanced engineering properties. Applications include runways, taxi-ways, tunnel liners, slope stabilization and jointless floors.
<b>Special Applications</b> Dosage: 100-160 lbs per CY, 50-80 kg/m <sup>3</sup>	These applications include ballistic blast walls and thin architectural panels.

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# NYCON-SF-B (TYPE V STEEL/SYNTHETIC BLEND)

## High Performance Steel Fiber and MULTIMESH® Nylon Fiber



<b>Advantages/Benefits</b>	<ul style="list-style-type: none"><li>• Provides multi-dimensional reinforcement.</li><li>• Improves impact resistance of concrete.</li><li>• Enhances durability and toughness of concrete.</li><li>• Excellent finishability.</li><li>• Provides steel macro fiber and synthetic fiber in one.</li></ul>
<b>Mixing</b>	NYCON-SF-B steel/synthetic fiber blend 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-B. The addition of NYCON-SF-B fiber blend 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.
<b>Tooling &amp; Finishing</b>	<p>Fiber reinforced concrete can be finished by most finishing techniques. NYCON-SF-B fiber blend does not affect the finishing characteristics of concrete. NYCON-SF-B fiber blend can be used in power/hand troweled concrete, colored and broom finished concrete.</p> <p>NYCON-SF-B fiber blend 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>
<b>Packaging</b>	(100) 24 lb (11 kg) paper bags per pallet, 2400 lbs per pallet
<b>Storage and Shelf Life</b>	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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