

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

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| 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 |
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| 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. |

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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.• Provides steel macro fiber and synthetic fiber in one. |
| Mixing | 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. |
| Tooling & Finishing | <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> |
| Packaging | (100) 24 lb (11 kg) paper bags per pallet, 2400 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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