

NyGuard™ SF

Steel Concrete Fibers

NyGuard™ SF represents a broad spectrum of steel fibers, all meeting the requirements of ASTM A820. Included in the menu of products are both Type I, drawn wire steel fibers, and Type II, slit sheet steel fibers. All of the various configurations of steel fibers are available including continuously deformed, end deformed and hooked-end, both glued and loose.

The selection of the appropriate **NyGuard™ SF** to meet the project performance requirements is easily accomplished by using the services of NMW's engineer. Our customer service staff will then ensure that the product selected, in the quantity required is delivered on time.

NyGuard™ SF can be provided in a dosage range from 24 to 150 lbs/yd³ (14.5 to 90 kgs/m³). Adjustments to the concrete mix design may be required to accommodate the increased surface area of the fiber.

NyGuard™ SF products conform to ASTM C 1116, Section 4.1.1 and other related specifications.

Benefits:

- **NyGuard™ SF** fibers provide 3-Dimensional reinforcement
- Provides post first crack toughness/residual strength
- At dosage rates at or above 50 lbs/yd³ (30 kgs/m³) the steel fiber will increase the flexural strength of the parent concrete
- Increased fatigue strength
- Significant time and labor cost savings over WWF
- Improves overall durability of the concrete
- Increased Impact resistance versus WWF
- Reduces Permeability

Applications:

- Commercial, Light, Medium and Heavy Industrial and Warehouse Slabs-on-ground
- Ultra Thin Whitetopping
- Shotcrete applications for tunnel lines and slope stabilization
- Precast Concrete Septic Tanks
- Composite Elevated Decks
- Tilt-Up panels
- Airport runways, ramps, taxiways and aprons
- Various hydraulic applications from flumes to dam reinforcement

General Specification:

NyGuard™ SF steel fibers should be specified as to type (Type I or Type II), configuration (Continuously deformed, end deformed, hooked-end loose or hooked-end glued), dosage level (in lbs/yd³ or kgs/m³) and length (3/4" – 2" or 19mm – 50mm). **NyGuard™ SF** is marketed by NMW, Inc., 6553 West 400 North, Greenfield, IN 46140. Phone: (800)253-4237, Fax: (317)891-1019.

Installation:

NyGuard™ SF fibers are introduced to the concrete differently than synthetic fibers. They must be introduced at a constant/uniform rate while the drum is revolving at mixing speed. The steel fibers may be added along with the conventional ingredients as long as the rate is uniform.

The most effective approach is to introduce after the conventional ingredients have been mixed. Standing at the conveyor belt, place the fibers continuously out of the pre-weighed bags/boxes until all fibers have been added to the mix. Continue to rotate the drum at mixing speed for a minimum of **3 Minutes** after all the steel fibers have been added.

Packaging:

Standard Packaging for **NyGuard™ SF** fibers is in 50 pound boxes or bags or 55 kilogram boxes or bags

Other packaging options are available

Physical Properties:

Specific Gravity.....7.86
Modulus of Elasticity.....29,000,000
Melting Point.....2760° F (1516°C)
General Specification.....Low Carbon Steel

All other specifications are specific to the type, configuration and length

Shipping Policy:

With steel fiber specifications being project specific, product is manufactured to meet the requirements upon receipt of the Purchase Order with initial delivery anticipated within 15 business days.

All LTL shipments/deliveries are fob plant.*

*Some exceptions apply

Limitations:

NyGuard™ SF fibers are intended to be used as a specified product per engineered requirements. Unless the project specifications dictate the type, dosage level, length and configuration of the Steel fibers required, then it is advised that NMW's engineer be contacted to review the application and options available. NMW, Inc. warrants that the product sold hereunder is of merchantable quality and conforms to seller's standards and specifications. Seller's sole liability for claim shall be limited to replacement of defective or non-conforming product. In no event shall seller be liable for any special, incidental, consequential, or exemplary damages. NMW, Inc. recommends that each user determine the suitability of the product(s) for their own particular application.

NMW, inc
Concrete Solutions

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