

# SSF TYPE V (STAINLESS STEEL)

HIGH PERFORMANCE FIBER, ASTM A820,  
CONTINUOUSLY DEFORMED

Drawn wire for reinforced concrete. SSF fibers distribute stresses within the concrete and provide improvement to ductility.

*Meet the requirements of ASTM A820.*

## Product Specs

<b>Filament Diameter</b>	0.046" (1.18 mm)
<b>Fiber Length</b>	1.5" (38 mm) or 2" (50 mm)
<b>Specific Gravity</b>	7.8
<b>Tensile Strength</b>	150 ksi (1030 MPa)
<b>Flexural Strength</b>	29,000 ksi (203 GPa)
<b>Melting Point</b>	2760° F (1516° C)
<b>Color</b>	Stainless Steel
<b>Water Absorption</b>	Nil
<b>Alkali Resistance</b>	High
<b>Corrosion Resistance</b>	High

## Product Description

SSF TYPE V stainless steel fiber products are drawn, continuously deformed stainless steel fibers for use in reinforced concrete and shotcrete.

## Advantages/Benefits

- Corrosion resistant stainless steel
- Provides multi-dimensional reinforcement.
- Improves impact resistance of concrete.
- Enhances durability and toughness of concrete.
- Excellent finishability

## Mixing

SSF 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 SSF TYPE V steel fibers. The addition of SSF 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.

## Storage and Shelf Life

NYCON products should be stored in dry warehouse. Protect product from the rain.

## Packaging

- (40) 55 lb (25 kg) paper bags per pallet, 2200 lbs per pallet
- (55) 40 lb (18 kg) paper bags per pallet, 2200 lbs per pallet



APPLICATIONS / DOSES	BENEFITS
<b>Shrinkage Control</b> 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> 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> 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> 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> 100-160 lbs per CY, 50-80 kg/m <sup>3</sup>	These applications include ballistic blast walls and thin architectural panels.

## Tooling & Finishing

Fiber reinforced concrete can be finished by most finishing techniques. SSF TYPE V steel fiber does not affect the finishing characteristics of concrete. SSF TYPE V steel fiber can be used in power/hand troweled concrete, colored and broom finished concrete.

SSF 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.

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