

# KingFiber<sup>®</sup> ST75

High performance steel fibers with hooked ends for reinforcement of concrete and mortar

## DESCRIPTION

KingFiber ST75 is steel wire filaments with hooked ends. Steel fibers are designed for use with all types of concrete mixes to enhance mechanical properties and reduce plastic shrinkage cracking.

## APPLICATIONS

KingFiber ST75 is ideally designed for use in the following applications:

- ☐ Shotcrete.
- ☐ Tunnel segments.
- ☐ Pre-cast concrete.
- ☐ Industrial floors.
- ☐ Composite decks.
- ☐ Pavements.
- ☐ Slabs on piles.
- ☐ Foundation slabs.
- ☐ Shear reinforcement in prestressed elements

## ADVANTAGES

- ☐ Increase in load bearing capacity.
- ☐ Increase in flexural bending strength.
- ☐ Increase in fatigue and abrasion resistance.
- ☐ Greater impact resistance and improved resistance to dynamic loads.
- ☐ Reduction in shrinkage cracks due to full depth reinforcement distribution.
- ☐ Economic advantage such as reduction in section thickness and construction time.
- ☐ 1 - 2 hours fire rating.

## STANDARDS

KingFiber ST75 complies with ASTM A820, Type I and EN 14889-1.

## METHOD OF USE

To ensure proper mixing, KingFiber ST75 should never be added as the first component of the concrete or mortar mix.

KingFiber ST75 should be added during or after the batching of the concrete mix.

Mixing time should be continued for 5 minutes to ensure a uniform distribution of the fibers in the concrete mix.

## PRODUCT RANGE

Diameter:	0.38 - 1.20
Length:	30 - 60
Aspect ratio: (L/D)	37 - 92
Tensile strength: (MPa)	1100 - 2900*
Type:	B/L**

\* Based on aspect ratio and dimensions

\*\*B: Bundled L: Loose



## PACKAGING

KingFiber ST75 is available in 20 kg bags.



# KingFiber<sup>®</sup> ST75

## STORAGE

Shelf life is 1 year when stored under cover, out of direct sunlight and protected from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult KingKrete's Technical Services Department.

## HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

## NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local KingKrete representative. KingKrete Inc. reserves the right to have the true cause of any difficulty determined by accepted test methods.

## QUALITY AND CARE

All products originating from KingKrete's Qatar facility are manufactured under a management system independently certified to conform to the requirements of the quality standard ISO 9001.

\* Properties listed are based on laboratory-controlled tests.

® = Registered trademark of the KingKrete-Group in many countries.

## KingKrete-Qatar/KingFiber\_ST75\_02/v2/07\_21

### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this KingKrete Inc. publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

K

### NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by KingKrete Inc. either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not KingKrete Inc. are responsible for carrying out procedures appropriate to a specific application.

