ST Fiber Type I
High performance steel fibers with hooked ends for reinforcement of concrete and mortar

Description
ST Fiber Type I 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
ST Fiber Type I 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
ST Fiber Type I complies with ASTM A820, Type I and EN 14889-1.

Method of Use
To ensure proper mixing, ST Fiber Type I should never be added as the first component of the concrete or mortar mix.

ST Fiber Type I 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.

<table>
<thead>
<tr>
<th>Diameter (± 0.02 mm)</th>
<th>Length (± 2 mm)</th>
<th>Aspect ratio (L/D)</th>
<th>Tensile strength (MPa)</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.38 - 1.20</td>
<td>30 - 60</td>
<td>37 - 92</td>
<td>1100 - 2900*</td>
<td>B/L**</td>
</tr>
</tbody>
</table>

* Based on aspect ratio and dimensions
**B: Bundled
L: Loose

Packaging
ST Fiber Type I is available in 20 kg bags.

Storage
Store under cover away from heat sources.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

Cautions

Health and Safety
There are no health hazards associated with ST Fiber Type I.
ST Fiber Type I

More from Don Construction Products

A wide range of construction chemicals products are manufactured by DCP which include:

- Concrete admixtures.
- Surface treatments
- Grouts and anchors.
- Concrete repair.
- Flooring systems.
- Protective coatings.
- Sealants.
- Waterproofing.
- Adhesives.
- Tile adhesives and grouts.
- Building products.
- Structural strengthening.

Note:
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