

# PRODUCT DATA SHEET

## SikaFiber®-6535 HE

### STEEL FIBRES FOR REINFORCEMENT OF CONCRETE

#### DESCRIPTION

SikaFiber®-6535 HE are filaments of wire, deformed and cut into length, for reinforcement of concrete. They are collated by water soluble glue and with hooked ends  
SikaFiber®-6535 HE complies with ASTM A820

#### USES

SikaFiber®-6535 HE are used as reinforcements of:

- Ready mixed concrete
- Precast concrete
- Shotcrete

#### CHARACTERISTICS / ADVANTAGES

- Increased crack resistance, ductility, energy absorption and toughness of concrete
- Improve impact resistance, fatigue endurance and shear strength of concrete
- High tensile strength fiber bridging joints to increase load-carrying capacity
- Require less labor to incorporate into concrete than conventional reinforcement
- Minimize maintenance and repair expense

#### PRODUCT INFORMATION

Chemical base	Low carbon steel
Packaging	20 kg normal bags or 1,000 kg bags
Appearance / Colour	Cold drawn wire
Shelf life	12 months if stored properly in original unopened packaging.
Storage conditions	Store in dry conditions at temperatures between +5°C and +30°C. Do not stack the pallets on each other.
Density	7.85 kg/m <sup>3</sup>
Dimensions	Length (l): 35 mm Diameter (d): 0.55 mm Aspect ratio (l/d): 65
Specific Advice	<p>Preferably produce the Steel Fiber Reinforced Concrete in a central batching plant mixer.</p> <p><b>Never add the fibers as the first material in the mixer!</b></p> <p>Fibers can be added together with the aggregate or directly into freshly mixed concrete.</p> <p>Mixing time is not increased significantly with the addition of fibers. Mixing must proceed until all glued fibers are separated individually.</p> <p>Drum mixer open bag and add fiber directly into the mixer</p>

Truck mixer

Run the mixer drum at a speed of 12 – 18 rpm. Adjust the slump to a minimum of 12 cm, depending on the actual fiber dosage. Preferably use a water reducing or high range water reducing admixture. Add the fibers in a maximum ratio of 40 kg/min. After adding the fibers, continue mixing at full speed 1 minute/m<sup>3</sup> of concrete and not less than 5 min.

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<b>Tensile Strength</b>	1,300 MPa
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## APPLICATION INFORMATION

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<b>Recommended Dosage</b>	<ul style="list-style-type: none"><li>▪ 20 – 157 kg/ cubic meter of concrete (0.25 – 2.0 % volume of steel fiber)</li><li>▪ Typical 20-40 kg/ cubic meter of concrete</li></ul>
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## FURTHER DOCUMENTS

It is always advisable to carry out trial mixes to establish the exact dosage required

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (available on request) containing physical, ecological, toxicological and other safety-related data.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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### Product Data Sheet

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