

## PRODUCT DATA SHEET

# SikaFiber® Novocon® CHE-05535 HT

Glued hooked end high tensile strength steel fibres

### DESCRIPTION

SikaFiber® Novocon® CHE-05535 HT steel fibres are designed specifically for the reinforcement of concrete, mortars and other cementitious mixes. SikaFiber® Novocon® CHE-05535 HT is a high quality cold drawn wire fibre, deformed with hooked ends to provide optimum performance within the concrete mix. SikaFiber® Novocon® CHE-05535 HT steel fibres are European Standard - EN 14889-1:2006 compliant and have been specifically designed to meet or exceed the defined performance requirements.

### USES

- Sprayed Concrete
- Precast
- Overlays and screeds
- Road pavements and roundabouts

### FEATURES

- Provides uniform multi-directional concrete reinforcement
- Increases crack resistance, ductility, energy absorption or toughness of concrete
- Improves impact resistance, fatigue endurance and shear strength of concrete

- High tensile strength fibre bridging joints and cracks to provide tighter aggregate interlock resulting in increased load-carrying capacity
- Requires less labour to incorporate into concrete than conventional reinforcement
- Offers economical concrete reinforcement solutions with greater project scheduling accuracy
- Ideally suited for hand or vibratory screeds, laser screeds and all conventional finishing equipment
- Reduces construction time
- Safe and easier to use than traditional reinforcement
- Leads to uniform application of shotcrete thickness
- Easy to dispense thanks to the water-soluble glue technology

### CERTIFICATES AND TEST REPORTS

SikaFiber® Novocon® CHE-05535 HT comply with European Standard EN 14889-1:2006 Fibres for Concrete Part 1: Group I. They conform to ASTM A820/2016, Type I cold drawn wire and ASTM C1116-Type I.

### PRODUCT INFORMATION

|                           |   |
|---------------------------|---|
| <b>Packaging</b>          | 10 kg bag<br>1000 kg bulker bag   |
| <b>Shelf life</b>         | 36 months from date of production if stored properly in undamaged, unopened, original sealed packaging.         |
| <b>Storage conditions</b> | Pallets should be protected against rain, snow and humid conditions. Do not stack pallets on top of each other. |
| <b>Dimensions</b>         | Fiber length : 35 mm<br>Diameter : 0.55 mm  |

Aspect ratio : 65

|   |  |
|---|--|
| <b>Tensile strength</b>                 | 1900 MPa   |
| <b>Modulus of elasticity in tension</b> | 210000 MPa   |
| <b>Recommended dosage</b>               | The dosage of SikaFiber® Novocon® CHE-05535 HT will vary depending on the type of application, concrete mix design and the performance/ toughness requirements of each particular project. Typically, steel fibre dosage will be in the range of 20 kg to 40 kg per cubic meter. Sika technical staff can offer advice on dosage requirements once performance requirements have been established by the project designer. |

## 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.

## ECOLOGY, HEALTH AND SAFETY

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w).

## 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.

## 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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