

TRI-STEEL FIBER H

End Hooked steel fiber for concrete proprieties enhancement

Description

TRI-STEEL FIBER H is a end hooked low carbon, cold-drawn steel wire designed to reinforce slab on grade concrete and enhance reinforced constructional elements with shrinkage crack control and improved shear resistance and increases tensile and flexure strength.



Standard compliance

- TYPE I
- ASTM (A820)

Typical uses

TRI-STEEL FIBER H is used in heavy duty construction works such as:

- Road ways and highways.
- All mega-concrete structure.
- Airports run ways.
- Industrial plants.
- Railways.
- Pipelines.
- Tunnels and mining works.
- Hydraulic dams.
- Port and marine engineering.

Advantages

- Ultra impact and fatigue resistance.
- High durability.
- Construction cost moderate.
- Prevent shrinkage cracking.
- Improve cohesiveness in concrete.
- Add abrasion resistance.

Technical Data @°25c

Length (L)	50 - 55 mm ± 3 m
Diameter (D)	1 mm (+/- 0.05 mm)
Middle length	40 mm (+/- 3 mm)
Height of hook	2.10 - 2.90 mm
Length of hook	4 - 6 mm
Tenstile Strength	Minimum 1400 N/mm ²

Directions for use

TRI-STEEL FIBER H is added either to the dry components before mixing or to the already mixed Green concrete into the mixer just before starting the pouring operation .In both cases ,a few minutes mixing is enough to obtain a good dispersion of the fibers.

Dosage

25 kg per m³

Package

TRI-STEEL FIBER H is available in 25 kg paper cartoon.

Shelf Life

The shelf life of the product is 24 months in unopened condition if stored as Per the recommendations. Exposure to high temperature and humidity will result in considerable deterioration of the product and reduce its shelf life.

Storage conditions

- Store the material in a cool, dry and covered place.
- Temperature should not exceed 35 °C.
- Do not expose the pails to direct sunlight and keep away from all sources of heat.

Sustainability and environmental accountability

•TRI-CHEM's Environmental sustainability is the accountability to conserve natural resources and protect global ecosystems to support health and well-being for this a more positive approach is that accountability guides the actions of power-holders towards more socially and environmentally sustainable results.

Technical support

- For any technical support, please contact TRI-CHEM technical office or representatives.

Health and safety responsibility

- Workplace health and safety is all about sensibly managing risks to protect TRI-CHEM's workers and business.
- ISO 45001 is a systematic health and safety management is characterized by strong leadership involving managers, workers, suppliers, contractors and customers and also health and safety management is an essential part of the movement towards sustainable development.
- Spillages should be washed down immediately.
- PPE in accordance with the health and safety rules should be used during the materials application.
- For irritant effects of the non-cured material, avoid contact with skin and eyes during storage and application.

Institutional Excellence and quality performance

- Institutional excellence in TRI-CHEM refers to achieving high levels of performance, quality and effectiveness in all aspects of TRI-CHEM company's work, it involves a systematic and continuous effort to improve an organization's performance by applying best practices, innovative approaches and evidence-based strategies, institutional excellence spans various areas, such as training , research, innovation, community engagement, governance, management and sustainability, and involves setting high standards, measuring performance against these standards and continuously improving performance to meet or exceed these standards, excellence in TRI-CHEM also includes a culture of continuous improvement and learning, where everyone in the organization is committed to achieving the organization's goals, working together to find solutions to challenges and opportunities, and requires a collaborative approach that includes all stakeholders.
- All products originating from TRI-CHEM facility are manufactured under a quality management system independently certified to conform the requirements of the quality standards (ISO 9001:2015).

Disclaimer

- While TRI-CHEM guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control.
- TRI-CHEM is recommended to verify with TRI-CHEM that the product is suitable for the intended use, and that this data sheet version is the latest one.
- TRI-CHEM may modify it without prior notice and technical characteristics are listed for guidance only.
- Any specification, recommendation or information mentioned in this product data sheet is (to TRI-CHEM's best knowledge) true and reliable.
- However, because TRI-CHEM has no influence on the application method of these products and the care taken, the company cannot accept any liability arising from the use of its products.

TRI-CHEM's warranty is therefore limited to the quality of the materials supplied which are guaranteed against defective materials.

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