

润强丝®-S1 Indented Steel Fiber

Brief Introduction

RQS®-S1 Indented Steel Fiber is comprised of cold rolled steel strip created through striping and cutting. RQS®-S1 can effectively decrease micro-crack propagation as a result of plastic shrinkage, drying shrinkage and concrete thermal stress, and delay macro-crack formation and propagation. RQS®-S1 significantly improves the crack resistance, tensile resistance, abrasion resistance and fatigue resistance of concrete.

Product Features

- **High anchoring force.** RQS®-S1 has a high anchoring force with cement-based materials.
- **Crack resistance improvement.** RQS®-S1 can stop or delay original crack formation and development. The fibers are also able to decrease the crack formation caused by plastic shrinkage, and inhibit the formation and macro crack formation and propagation.
- **Reducing creep.** RQS®-S1 can significantly reduce concrete creep.
- **Improvement of mechanical properties.** Under a dosage of 1~2% by volume of RQS®-S1, the tensile strength can be increased by 50~100%, 10~25% for compressive strength and 40~60% for bending strength.
- **Excellent impact resistance.** The impact resistance of RQS®-S1 reinforced concrete is several times higher than that of common concrete.

Technical Data

Following data are the typical characteristics of RQS®-S1, which can be adjusted slightly depending on customer's needs.

Item	Value	Item	Value
Fiber type	Indentation	Tensile strength, MPa , >	400
Equivalent diameter, mm	0.5-0.7	Elastic modulus, GPa , >	210
Length, mm	20-50	Elongation at break, % , <	4
Density, g/cm ³	7.8	Safety	Non-toxic

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Method of Use and Matters Needing Attention

- **Dosage:** The standard range of the RQS®-S1 addition is 39~156kg/m³.
- **Requirements of materials:** Sea water, sea sand and chloride ions must not be used in steel fiber-reinforced concrete.
- **Mixing:** The workability of steel fiber-reinforced concrete can be determined by referring to common concrete slump. The mixing time should be lengthened for good dispersion.

Packaging and Storage

- **Packaging:** Paper package with 20kg/bag. Other type of packaging are also available as requested.
- **Storage:** The packages should be stored in a cool and dry place. Protection from water should be ensured during transportation. The maximum product life is within one year if maintained in the proper conditions.

Security Matters

RQS®-S1 contains no hazardous substances that require labeling. However, using standard handling procedures with the product is recommended.

Technology and Service Characteristics

To guarantee the desired concrete performance, we provide a technical consulting service dealing with the design of concrete mix proportion and experiments on the optimization of mix proportion. Our technical staff offers an on-site directing service for free.

NOTE : Field service, where provided, does not constitute supervisory responsibility. Suggestions made by SOBUTE whether verbal or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, but not SOBUTE, are responsible for carrying out procedures appropriate to the specific application.



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