

润强丝®-S2



End-hooked Steel Fiber (Dispersed, Glued)

Brief Introduction

RQS®-S2 is cold-drawn steel-wire fiber that has hooked ends. In comparison to ordinary steel fiber, RQS®-S2-reinforced concrete possesses more ductility and has a high load-bearing capacity. RQS®-S2 can reduce micro-crack expansion due to plastic shrinkage, drying shrinkage and thermal cracking, and obstruct macro-crack formation and propagation.

Product Features

- **High anchoring force.** RQS®-S2 can create a high anchoring force with cement-based materials due to the hooked ends, two times more than ordinary steel fiber.
- **Obviously toughening effect.** Adding RQS®-S2 into concrete, the fiber improves concrete's toughness performance.
- **Significantly increased impact resistance.** The impact resistance of RQS®-S2-reinforced concrete is significantly increased compared to that of plain concrete.
- **Reduce shrinkage and creep.** Under sustained loading, RQS®-S2 is able to decrease the expansion of concrete micro-cracks and macro-cracks.

Technical Data

Following data are the typical characteristics of RQS®-S2, which can be adjusted slightly depending on customer's needs.

Item	Value	Item	Value
Fiber type	End hooked	Tensile strength , MPa , >	1200
Diameter , mm	0.3-0.9	Elastic modulus , GPa , >	210
Length , mm	30,60 (or customize)	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[®]-S2 addition is 39~156kg/m³.
- **Material requirements:** Sea water, sea sand and chloride ions must not be used in steel fiber-reinforced concrete.
- **Mixing:** The fiber, cement, sand, stone are added to the mixer, then add water and stir; mixing time should be lengthened for good fiber dispersion.

Packaging and Storage

- **Packaging:** Paper package with 20kg/bag. Other types 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[®]-S2 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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