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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

JG/T 472-2015

Replacing JG/T 3064-1999

**Steel fiber reinforced concrete
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces JG/T 3064-1999 "steel fiber concrete." The main technical changes compared with JG/T 3064-1999 are as follows.

- Modify the scope of the standard;
- Increasing the classification of steel fiber concrete performance levels;
- Increase the provisions of the classification of tensile strength of steel fiber, steel fiber production process increased by wire scraping type;
- Revised and improved steel fiber quality inspection methods;
- Increase the cement, aggregate, water, additives, mineral admixtures, such as the technical requirements and inspection requirements;
- Modify the steel fiber concrete mix design method;
- Refine and improve the mechanical properties of steel fiber reinforced concrete calculation method, an increase of the tensile strength, the standard value of bending strength coefficient;
- Increasing the performance of steel fiber reinforced concrete mixture and the test method of steel fiber content and steel fiber concrete chloride ion content Testing method;
- Increased steel fiber reinforced concrete bending fatigue strength, compression and tensile modulus, shear modulus, Poisson's ratio and linear expansion Number of mechanical properties such as the requirements and the corresponding test methods;
- Increasing the shrinkage of steel fiber reinforced concrete, creep properties and steel fiber concrete resistance to chloride ion penetration of the technical requirements and its corresponding test method;

- Modify the calculation and evaluation method of flexural toughness of steel fiber reinforced concrete;
- Increasing the steel fiber concrete and existing concrete bonding and durability of the technical requirements and test methods;
- Refine and improve the test rules of steel fiber concrete.

This standard proposed by the Ministry of Housing and Urban Standard and Design Institute.

This standard by the Ministry of Housing and Urban Construction Building Standardization Technical Committee centralized.

1 Scope

This standard specifies the terms and definitions of steel fiber reinforced concrete, symbols, performance levels, raw materials and mix, performance requirements, preparation, testing Methods and inspection rules.

This standard applies to steel fiber volume ratio of not more than 3% of steel fiber concrete.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB 175 Universal portland cement Thermal Portland cement low heat Portland cement low heat slag Portland cement GB/T 1596 for the cement and concrete fly ash GB 8076 concrete admixture GB/T 14902 ready-mixed concrete GB/T 18046 used in cement and concrete granulated blast furnace slag GB/T 20491 used in cement and concrete slag powder Recycled fine aggregate for concrete and mortar GB/T 25177 recycled coarse aggregate for concrete GB/T 27690 mortar and concrete with silica fume GB/T 28293 steel slag powder GB 50010 Design code for concrete structures GB/T 50080 ordinary concrete mixture performance test method standard GB/T 50081 ordinary concrete mechanical properties of test methods and standards GB/T 50082 ordinary concrete long-term performance and durability test methods standards GB/T 50107 concrete strength test evaluation standards GB 50119 Concrete admixture application technical specifications GB 50164 concrete quality control standards Acceptance code for construction quality of concrete structures GB 50204 GB/T 50476 Design of durability of concrete structures JC477 quick-setting admixture for shotcrete JG/T 248 concrete slump meter JG/T 351 Natural pozzolanic materials for cement mortar and concrete Technical specification of JG J/T 10 concrete pumping construction JG J52 Ordinary concrete sand, stone quality and test methods standards JG J55 ordinary concrete mix design rules JG J63 concrete water

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