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

JG/T 573-2020

**Recycled fine powder used in concrete and mortar
(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 was proposed by the Standard Rating Institute of the Ministry of Housing and Urban-Rural Development.

This standard is under the jurisdiction of the Construction Engineering Quality Standardization Technical Committee of the Ministry of Housing and Urban-Rural Development.

The organization responsible for drafting this standard. China Academy of Building Research Co., Ltd.

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Construction Testing Co., Ltd., Kashgar University, Beijing Construction Engineering Quality Second Inspection Institute Co., Ltd., Shougang Environmental Industry Co., Ltd., Kezhijie New Material Group Co., Ltd., Guangzhou Tiecheng Cheng Quality Inspection Co., Ltd., China Construction Second Engineering Bureau Co., Ltd., Fujian Takicheng Construction Industry Co., Ltd., Wujiang City Construction Project Quality Inspection Center Co., Ltd., Beijing Urban Construction Eight Construction Development Co., Ltd.

1 Scope

This standard specifies the terms and definitions, classification and marking, requirements, test methods, inspection rules, packaging and marking, storage and transportation.

This standard applies to the recycled micropowder used as admixture when preparing concrete, mortar and their products.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version is suitable for this document, the latest version (including all amendments) of the undated reference documents is applicable to this document.

GB/T 176 Cement chemical analysis method GB/T 1345 Cement Fineness Inspection Method Sieve Analysis Method GB/T 1346 Cement standard consistency, water consumption, setting time, and stability test method GB/T 1596 Fly ash used in cement and concrete GB/T 2419 Method for determination of fluidity of cement mortar GB 6566 Radionuclide limits for building materials GB/T 9774 cement packaging bag GB/T 12573 Cement sampling method GB/T 17671 Cement mortar strength inspection method (ISO method) GB/T 30190 Limestone Powder Concrete

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Recycled fine powder

The particle size accompanying the use of construction waste with concrete, bricks and tiles as the main components to prepare recycled aggregate is less than 75μm particles.

4.1 Classification

Regenerated micropowder is divided into grade I and grade II.

4.2.1 Marking method

The mark of recycled micropowder is composed of three parts. recycled micropowder product code, classification code and standard code. Expressed as follows.

4.2.2 Example

Grade II recycled powder is marked as.

5 Requirements

5.1

The technical indicators of recycled micropowder should meet the requirements of Table 1.

5.2

The alkali content in the regenerated micropowder should be expressed as the calculated value of $\text{Na}_2\text{O}+0.658\text{K}_2\text{O}$. When there is alkali content in the application of recycled powder when restricting requirements, both parties negotiate and determine.

5.3

The radionuclide limit of regenerated micropowder shall meet the regulations of GB 6566.

6.1 Fineness

According to the 45 μm negative pressure sieve analysis method in GB/T 1345.

6.2 Water demand ratio and fluidity change over time in 2h

Follow the provisions of Appendix A.

6.3 Activity index

Follow the provisions of Appendix B.

6.4 MB Value of Methylene Blue

According to the provisions of GB/T 30190.

6.5 Stability

Product code (RFP)

Classification code. Class I is I, Class II is II According to the provisions of GB/T 1346.

6.6 Water content

According to the provisions of GB/T 1596.

6.7 Chloride ion content, sulfur trioxide content, alkali content

According to the provisions of GB/T 176.

6.8 Radioactivity

According to the provisions of GB 6566.

7.1 Number

The regenerated powder is numbered and sampled at the same level before leaving the factory. Bulk recycled micropowder and bag recycled micropowder should be compiled separately Number and sampling. No more than 50t is a number.

7.2 Sampling

7.2.1

Each number is a sampling unit.

7.2.2

The sampling method shall be carried out according to GB/T 12573. Sampling should be representative, and samples should be taken from more than 10 different locations. Bagged Recycled micropowders should be taken from more than 10 packaging bags in an equal amount, each not less than 1.0kg; bulk recycled micropowders should be taken from an equal amount of samples shall be taken from each bulk transport container. Each bulk transport container shall take an equal amount of samples from different depths.

Less than 10kg. After the samples are evenly mixed, take out a sample that is more than twice the amount required for the test according to the quarter method.

7.2.3

The test samples should be kept and sealed for at least 6 months. When there is a dispute, re-inspection or arbitration inspection shall be conducted on the retained samples.

7.3 Factory inspection

The factory inspection items include the fineness, water requirement ratio, activity index, methylene blue MB value and stability in Table 1.