

QWISE-FM-JCZDS-2019

Company Standard

Hunan WISE New Material Technology Co., Ltd.

Powder sub-factory

Powder product monitoring process

Operating instructions

Approved by : Zhaohui LIU Prepared by: Liyun Yun Xing Wang

Checked by Technical Dept : Yizhong Zhang and Yongshen Gong

Checked by Sub-Factory: Zhengchen Xu and Zhengdao Xiao

August 1, 2019 Release

August 1, 2019 Effective

Hunan WISE New Material Technology Co., Ltd. Release

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Powder sub-factory Operating instructions

Process product monitoring

1 main raw materials

1.1 Quantitative filter paper, sample bag.

1 main equipment and tools

2.1 Equipment: Fisher average particle size analyzer, atomic absorption spectrometer, atomic absorption spectrophotometer, melting furnace, melting sample cabinet, scanning electron microscope, laser particle size analyzer, inspection sieve, total carbon sharing instrument, nitrogen oxide meter, X-ray diffractometer, Balance.

2.2 Tools: sampler, sampling tray, standard sieve.

3 job quality requirements

The difference in particle size measured twice shall not exceed 6%.

4 steps and essentials

4.1 Sampling

Sampling point: the furnace front material - each carbon tube furnace in front of the discharge barrel; ball milled through the sieve material - after ball milling;

After the finished materials are batched and after batch screening.

4.2 sampling method

(a) Insert the bottom of the bucket vertically into the drum with a sampler. After one rotation, pull it out slightly, and pour half of the material into the standard sieve for inspection. The other half is poured into the sample tray. In this way, the equal-sided

triangle fixed-point method is used to uniformly take twice in the barrel.

(b) The pre-furnace material is also sampled by the above method, and then all the samples are sieved with a standard sieve, and the sample tray is connected to the sample tray until about 20 g of the sieve material is used, and the sieved material is used for sample preparation.

4.3 Sample preparation method:

(a) Mix the sample in the sample plate with the steel ruler and evenly scrape it. Grab the sample randomly according to the plum blossom method, and return the remaining material to the sampling barrel.

(b) Analysis of inspection items and samples: Except for special cases, the analysis items are total carbon, free carbon, iron, oxygen, nitrogen, phase composition and average particle size. When preparing samples, take about 100 grams of each sample for center detection. room.

(c) Sift the powder in the standard sieve until the remaining material in the sieve is wrapped with cellophane, and the sieve is checked by the center inspection room.

(d) Sampling screen mesh: a screen with a pore size of 105 um.

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