

QWISE-FM-SBJSGC-2019-WZS

Company Standard

Hunan WISE New Material Technology Co., Ltd.

Powder sub-factory

Powder product

production process equipment

safety technical regulations

Horizontal vacuum sintering furnace safety technical regulations

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

QWISE-FM-SBJSGC-2019-WZS

Company Standard

Hunan WISE New Material Technology Co., Ltd.

Powder sub-factory

production process equipment safety technical regulations

Horizontal vacuum sintering furnace safety technical regulations

- 1、Wear overalls, work shoes, gloves, and dust masks before operation.
- 2、Preparation for opening the furnace:
 - 2.1 Confirm that each system is normal, whether water and electricity are unblocked, and there is no leakage. Check whether the seals of each interface, furnace door, valve, etc. are good, whether the vacuum pump oil is dirty or not, whether the oil level is suitable, whether the vacuum pump is running normally, etc.;
 - 2.2 When installing the furnace, the boat should be prevented from colliding with the corundum tube, and the contact with the carbon rod should not be made to determine whether the position of the boat is suitable.
- 3、The heating procedure should be strictly followed in accordance with the process requirements. When starting, first open the main valve of the electrical cabinet, then turn off the vacuum pump power supply, and turn on the main circuit switching power supply. When the vacuum level meets the requirements, press the "RUN" button to start the running program.
- 4、The Roots vacuum pump can be turned on when it is determined that the furnace vacuum is in accordance with the requirements of the Roots vacuum pump (600pa).
- 5、When using the vacuum gauge to read the vacuum in the furnace, the vacuum gauge should be rotated slowly, and the readings should be read in strict accordance with the operation requirements.
- 6、During the heating process, attention should be paid to monitoring the changes of the cooling water in each part of the furnace body, and it is found that the abnormality is treated in time.
- 7、When stopping the furnace, execute in reverse order. Press the "RST" button to end the program, then disconnect the main circuit switching power supply, then disconnect the vacuum pump power supply, and finally disconnect the electrical cabinet main valve.
- 8、When an overcurrent or overvoltage alarm occurs in the electrical

cabinet,immediately record the program operation,contact the electrician for maintenance,disconnect the main circuit switch,close the vacuum pipeline valve,and disconnect the vacuum pump power supply.

- 9、 In the event of water stoppage,the furnace should be immediately shut down to cool down and the program's operating status should be recorded.
- 10、 If there is a sudden power outage, immediately close the vacuum line valve,record the operating status of the program,and disconnect the main circuit switching power supply and vacuum pump power.
- 11、 Keep equipment and the environment clean and tidy.

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