

POWDER FURNACE PRODUCT OVERVIEW

POWDER FOR EVERY PROCESS



PRODUCT INTRODUCTION

RELIABLE SOURCE

FOR SEMI-INSULATING AND CONDUCTIVE POWDER

Producing high-purity SiC powder is essential for both semi-insulating and conducting materials in advanced electronics. Our specialized furnace provides the ideal environment for synthesizing SiC powder with precisely controlled properties. Achieve consistent quality and tailored material characteristics – setting the standard for reliable device performance from the very first step of your production process.

FEATURES AT A GLANCE



Guided by our PVA process experts

Support directly from the Technology Hub



Low production costs, high quality

Cost-efficient, high-purity powder



Easy integration into your infrastructure

Fits seamlessly into existing lines



Process stability through precise control

Tailored to your specifications



Connectivity via SECS-GEM and OPC-UA

Seamless integration into your systems



Purity: 6N for semi and conductive

Consistent, tailored powder quality

FACTS & SPECIFICATIONS

Nitrogen level can be tuned in a concentration range from below 1 ppm (semi-insulating/white powder) to more than 200 ppm (conductive/green powder). Physical and chemical properties tunable based on request.

Our system enables the production up to 30 kg per process, ensuring consistent and reliable results. With multiple batches, you can achieve a total output of up to 120 kg daily, making it ideal for small-scale and larger production requirements.



SPECIFICATIONS

Temperature	up to 2,600 °C
Process pressure	1–1,100 mbar
Grain sizes	Starting from very fine powder below 100 micron to larger grains of about 2 mm
Footprint (W x D x H)	1,200 mm x 2,000 mm x 3,200 mm
Features	■ Turbo molecular pump for the cleanest process environment ■ Active cooling for higher productivity ■ Broad band of software options to integrate the machine to your workflows ■ 6N purity with nitrogen levels tunable within 1 ppm to more than 200 ppm



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