

hbhm2

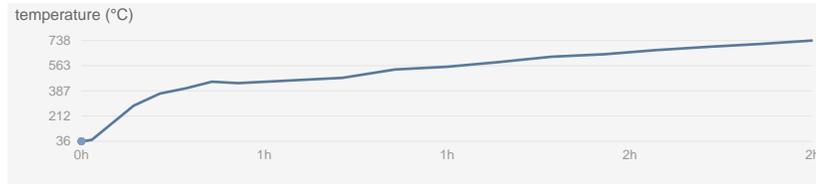
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July 19, 2025 · Falls Church, VA · han blue

overview

zero time: Jul 19, 2025, 07:28 PM · duration: 0.0h · target: 30g

synthesis



charge

reagent	ratio	target	measured	error
BaCO3	1	10.30	10.30	+0.00
CuO	1	4.77	4.71	+0.06
SiO2	2	14.93	14.92	+0.01

Charge reused from earlier Han Blue batch. Multiple alumina boats loaded. Furnace configuration unstable during run.

events

- t+0.0h **Run initiated**
Furnace powered with unstable electrical configuration; temperature control inconsistent.
- t+0.0h **Electrical instability observed**
Rod short, wiring issues, and element configuration problems encountered during run.
- t+0.0h **Run terminated**
Heating stopped after instability; no long controlled soak achieved.

HBHM2 was an electrically chaotic run with poor control, but temperature locally exceeded Han Blue formation threshold in parts of the chamber.

product

notes

- Han Blue product recovered
- Blue material present in three alumina boats
- Mixture of friable powder and partially sintered chunks
- Color consistent with Han Blue
- Texture varied between boats, suggesting thermal gradients
- Product manually broken down and smear-tested on graph paper

For informational purposes only. Batch data reflects recorded conditions and is not a guarantee of specifications.

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