

# HB-2025-002

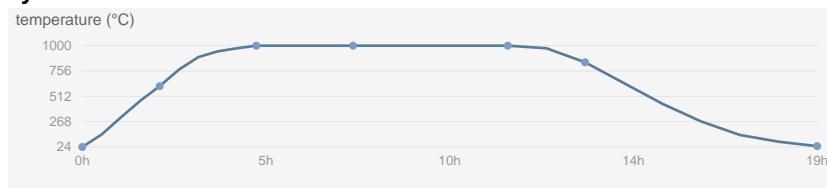
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January 4, 2025 · Falls Church, VA · han blue

## overview

zero time: Jan 4, 2025, 01:00 AM · duration: 20.0h · target: 100g

## synthesis



## charge

reagent	ratio	target	measured	error
BaCO <sub>3</sub>	1	39.46	39.48	+0.02
CuO	1	15.90	15.89	-0.01
SiO <sub>2</sub>	2	24.04	24.05	+0.01
Na <sub>2</sub> CO <sub>3</sub>	0.1	2.12	2.11	-0.01

milling: 40 min

Scaled up 2x from HB-2025-001. Extended milling time for larger charge.

## events

- t+0.0h Furnace loaded  
Larger crucible used for 100g charge
- t+2.0h N2 purge initiated  
Switched to nitrogen at 610°C
- t+4.5h Target temperature reached  
Slightly slower ramp due to larger thermal mass
- t+7.0h Visual check  
Good blue development, center slightly lighter
- t+11.0h Extended hold  
Added 1h hold for larger charge uniformity
- t+13.0h N2 purge ended  
Returned to air at 840°C
- t+19.0h Furnace opened  
Product removed, excellent color

Extended hold time by 1h for larger batch. Excellent results.

## product

yield	78.5 g (96.4%)
expected	81.4 g
variance	-2.9 g

## notes

- Excellent deep blue, very uniform
- Improved yield vs first batch
- Ready for grinding and classification

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

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