

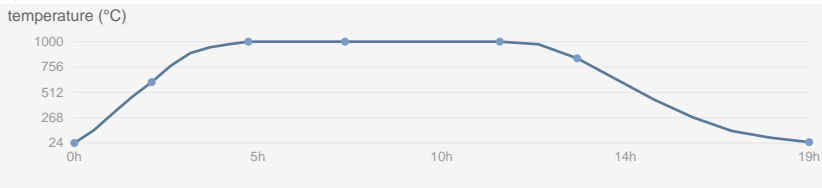
HB-2025-002

exported from [elementalcolor.com](#) · export date: Jan 30, 2026
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
BaCO3	1	39.46	39.48	+0.02
CuO	1	15.90	15.89	-0.01
SiO2	2	24.04	24.05	+0.01
Na2CO3	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.