

HB-2025-003

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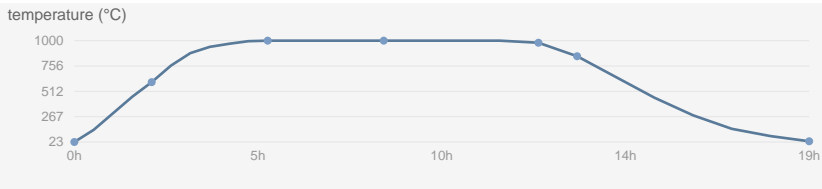
January 9, 2025 · Falls Church, VA · han blue

● currently shipping from this batch

overview

zero time: Jan 9, 2025, 01:00 AM · duration: 20.0h · target: 150g

synthesis



product

yield	119.8 g (98.1%)
expected	122.1 g
variance	-2.3 g

notes

- Outstanding deep blue color
- Excellent uniformity and texture
- Highest yield percentage achieved
- Currently shipping from this batch

charge

reagent	ratio	target	measured	error
BaCO3	1	59.19	59.20	+0.01
CuO	1	23.85	23.84	-0.01
SiO2	2	36.06	36.07	+0.01
Na2CO3	0.1	3.18	3.18	+0.00

milling: 50 min
Production batch. All reagents from fresh stock. Extended milling for optimal homogeneity.

events

- t+0.0h **Furnace loaded**
Production run, larger crucible with optimized geometry
- t+2.0h **N2 purge initiated**
Switched to nitrogen at 600°C
- t+5.0h **Target temperature reached**
Stable at 1000°C, excellent thermal uniformity
- t+8.0h **Mid-hold check**
Perfect blue color throughout visible area
- t+12.0h **Hold complete**
Beginning controlled cooldown
- t+13.0h **N2 purge ended**
Returned to air at 850°C
- t+19.0h **Furnace opened**
Excellent product, ready for processing

Production batch. Optimal parameters from previous runs applied. Best results to date.

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