

HB-2025-003

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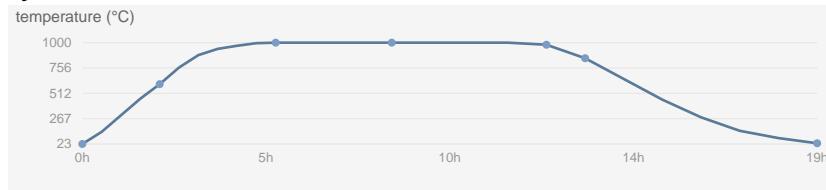
January 9, 2025 · Falls Church, VA · han blue

● 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
BaCO ₃	1	59.19	59.20	+0.01
CuO	1	23.85	23.84	-0.01
SiO ₂	2	36.06	36.07	+0.01
Na ₂ CO ₃	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.

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