

# bsop2

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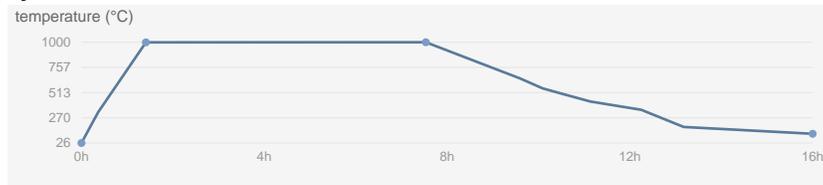
February 15, 2025 · Falls Church, VA · han blue

● currently shipping from this batch

## overview

zero time: Feb 15, 2025, 04:20 PM · duration: 16.1h · target: 823.33g

## synthesis



## charge

reagent	ratio	target	measured	error
BaCO <sub>3</sub>	1	343.37	343.37	—
CuO	1	138.42	138.42	—
SiO <sub>2</sub>	4	418.16	418.16	—

Approximately 900g charge, 1:1:4 molar stoichiometric BaCO<sub>3</sub>:CuO:SiO<sub>2</sub>.

## events

- t+0.0h Batch start / furnace zero-time (11:20A local).
- t+1.4h 999C reached; soak began (01:25 elapsed).
- t+7.6h 1000C; cut power at 07:34 elapsed, cooldown begins.
- t+16.1h 115C reached at 16:04 elapsed; pulled charges, run end.

## product

yield	796.57 g (96.8%)
expected	823.33 g
variance	-26.76 g

### notes

- Yield calculated relative to 1.740 mol theoretical BaCuSi<sub>4</sub>O<sub>10</sub> (~823.33g expected).
- 96.75% yield achieved.

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

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