

hbhm1

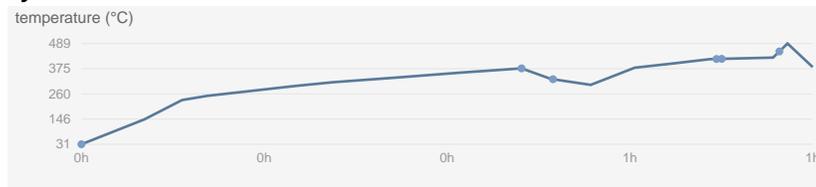
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July 18, 2025 · Falls Church, VA · han blue

overview

zero time: Jul 18, 2025, 07:06 AM · duration: 1.0h · target: 30g

synthesis



charge

reagent	ratio	target	measured	error
BaCO3	1	10.30	10.30	+0.00
CuO	1	4.77	4.71	+0.06
SiO2	2	14.93	14.92	+0.01

Three separate boats of Han Blue prepared; each used approximately three lab spoons of charge. One loaded in Han Blue Hail Mary 1. No record of their weights survives.

events

- t+0.0h **Furnace energized**
Initial temperature recorded at 31°C.
- t+0.6h **Electrical intervention**
Rewired system around 35:30 due to resistance issues, removing toaster failed.
- t+0.6h **Breaker failure**
Breaker blew at approximately 37:50.
- t+0.8h **Toasters failed**
Heating elements died; temperature dropped.
- t+0.8h **Breaker tripped**
Breaker tripped again shortly after bypass attempt.
- t+0.9h **Toasters failed**
Heating elements died; temperature dropped.
- t+1.1h **Experiment terminated**
Experiment marked as failed.

Attempted HB synthesis using modified box furnace running on 120V residential mains. Nonstandard heating setup using SiC rods with toaster elements (to add Omega). Multiple breaker trips and element failures prevented reaching synthesis temperatures.

product

notes

- In between 240V power access, decided to attempt synthesis using 120V residential mains
- Experiment failed before completion
- Put too much isopropyl into the ball mill jar, black goop formed only 2h15m into milling.
- Electrical instability due to 120V residential mains insufficient for heating elements.
- Low resistance SiC rods drew too much current, tripping breakers repeatedly
- Attempted to increase resistance of heating circuit by using toaster elements in series with SiC rods, but toaster failed

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