

● currently shipping from this batch

## overview

zero time: Feb 12, 2025, 08:56 AM · duration: 16.2h

## synthesis



## product

yield 648 g (81.0%)  
 expected 800 g

### notes

- Yield calculated relative to 2.128 mol theoretical CaCuSi4O10 ("H800 g target).
- 81% yield achieved.

## charge

reagent	ratio	target	measured	error
CaCO3	1	212.99	—	—
CuO	1	169.28	—	—
SiO2	4	511.40	—	—

## events

- t+0.0h Batch start / furnace zero-time (2:56A local). Launching from dryout at 84C.
- t+0.4h 460C reached; more organics left than expected, boat in flames briefly.
- t+0.5h 507C; ramp slightly slowed by opening chamber to inspect smoke/flame situation.
- t+1.2h 1000C reached; 7h soak time started.
- t+8.2h Killed power at 08:13 elapsed / 07:00 soak; end soak, cooldown begins.
- t+16.1h 115C reached at 16:08 elapsed; pulled charges, run end.

Elapsed-time log: 00:00 84C (dryout); 00:04 136C; 00:23 460C (flames); 00:30 507C; 00:41 656C; 00:48 741C; 00:54 808C; 01:07 938C; 01:13 1000C; 7h soak; 08:13 killed power; 09:43 644C; 10:12 561C; 10:46 480C; 11:13 424C; 12:15 343C; 13:18 176C; 16:08 115C pulled.

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