

Desiccant Box

N Nikdfish

[VIEW IN BROWSER](#)

updated 12. 4. 2022 | published 17. 12. 2021

Summary

These are two part desiccant boxes with perforations on all six sides. There are 4"x4"x1" and 3"x3"x1" versions. When...

[3D Printers](#) > [Accessories](#)

Tags: [desiccant](#) [desiccantbox](#)

These are two part desiccant boxes with perforations on all six sides. There are 4"x4"x1" and 3"x3"x1" versions. When fitted together, the perforations on the four sides align for optimal air flow. Small tabs lock the pieces together, but do not prevent easy separation if required.

These were done in TinkerCad.

The 4x4x1 version: <https://www.tinkercad.com/things/6ahNs0NI9S6>

The 3x3x1 version: <https://www.tinkercad.com/things/0dQooKQkrfc>

Print Settings

Printer:

Ender 3

Rafts:

No

Supports:

No

Resolution:

0.2mm

Infill:

20%

Filament: any PLA+ (aka PLA Pro) any

Notes:

The perforations are approximately 1.5 - 1.7 mm and should work well with silica beads whose minimum size is 2mm+. I used PLA+ because I feel it handles regeneration heat better than regular PLA. The boxes should be able to permit silica gel regeneration in either microwave or dehydrator.

I tested a box in a 60 - 70° C dehydrator for an hour. It did soften but did not lose retention integrity when handled. YMMV

Care should be taken to avoid deforming a box when handling while in the softened state.

Category: 3D Printer Accessories

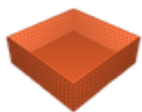
Model files



silica_gel_box_top_3x3x1.stl



silica_gel_box_top_4x4x1.stl



silica_gel_box_bot_3x3x1.stl



silica_gel_box_bot_4x4x1.stl

[Find source .stl files on Thingiverse.com](#)

License ©

This work is licensed under a
[Creative Commons \(4.0 International License\)](#)



Attribution

- ✗ | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- ✓ | Commercial Use
- ✓ | Free Cultural Works
- ✓ | Meets Open Definition