Subject: BOAT IN A BOTTLE (Ceramics)
Posted by opresco on Thu, 13 Sep 2012 21:34:38 GMT
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http://shpws.me/hzMU

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"The only way to discover the limits of the possible
is to go beyond them into the impossible."
Arthur C. Clarke
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File Attachments

1) ShipInTheBottle_04.JPG, downloaded 301 times

Subject: Re: BOAT IN A BOTTLE (Ceramics)
Posted by TurtlesAreCool on Tue, 18 Sep 2012 04:13:21 GMT
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I haven't printed any ceramic, so maybe I'll start off a discussion with a few questions and a little supposition.

What is the nature of the ceramic mid-process (before firing)? Is it hard and brittle, like dried clay?

How much volume is the boat in the middle?

Judging by the shadows, the boat only touches one "rung" of the bottle, along the keel. I'd imagine making some part of the sides touch another rung of the bottle would make this more sturdy. I'd also ensure the stern of the boat touches the bottom of the bottle.

Subject: Re: BOAT IN A BOTTLE (Ceramics)
Posted by opresco on Tue, 18 Sep 2012 11:25:13 GMT
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Hi TurtlesAreCool,

The Boat does not have too big of a volume because it is hollow.
Funny, this in fact adds to the price because, for ceramics, they charge
per cm2: $0.18/cm2 surface area, and not per volume, as they do for all other materials

Actually this is just the enlarged model of my:
http://www.shapeways.com/model/124978/ship-in-a-bottle.html
that prints beautifully in Stainless Steel.
Thanks for your pertinent suggestions.
I am remaking the model so the boat touches all sides of the bottle.

Here's an example http://shpws.me/aMwe that pushed the limits of
"ceramics wet sand rules" â€" read more about it here:
http://www.shapeways.com/materials/ceramics.

Subject: Re: BOAT IN A BOTTLE (Ceramics)
Posted by Youknowwho4eva on Tue, 18 Sep 2012 13:03:09 GMT
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If that's the print orientation (flat side down) it will fail for sure, as the boat appears to not touch the bottom, Other thing to check would be the windows. They look very sharp (no radius?).

Subject: Re: BOAT IN A BOTTLE (Ceramics)
Posted by opresco on Tue, 18 Sep 2012 16:34:34 GMT
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Thanks Youknowwho4eva,

The final print orientation will be with the bottle horizontally sitting on a wire display stand.
I'm adding a Display Stand as you can see here: SHIP IN A BOTTLE" http://shpws.me/3Quu),
but made out of "wires" and that will be common with the bottle.

The boat will also intersect with the wire bottle in more critical points as TurtlesAreCool
already has suggested.

In fact I am completely re-designing it specifically for ceramics.
Hey, this is "Work in Progress", isn't it?

Thanks for your always pertinent remarks

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Subject: Re: BOAT IN A BOTTLE (Ceramics)
Posted by CactusBones on Sat, 29 Sep 2012 02:57:19 GMT
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I really like this! Well done! I hope it prints ok.