



# Glass Online

## soaking vs higher temperature?

Hello people

I have a doubt about a process.

Of course i can experiment in my kiln but i want to learn more.

If i want to get an effect, for example slumping into a mold i could go until 600C then soaking for example 30 minutes and waiting for example for movement of the glass.

But same effect can be obtained at lower temperature with more soaking? (550C at 90 minutes)

And same too, can be obtained going at 680C for example without soaking?

I hope you can help me to understand this theory

Grazie

\* Yes you can.

Heatwork is a function of both time (ramp rate AND soak time) and temperature

\* thanks barbara...

what reason to choose one way or other?

ciao

\* Lower temperature soaks are easier to control as the heatwork affects the glass more slowly.

Lower temperatures also tend to stretch the glass more evenly down into the mold.

I would consider 680 C too high for regular Bullseye or Spectrum glass.

\* As a new fuser (1 year, am I still a newbie?) I slumped a pasta bowl last night using the slow-low temp slump. My piece was 5/8" thick and I ramped it at 150 dph, soaked at 1100 and when I piece hit 1150 it had already slumped into the mold beautifully. So I am now a TRUE BELIEVER in ramp slow, use a lower temp to hold rather than using fast and higher temps.

\* Grammy

You are growing up. It seems that nobody understands the low and slow strategies when they are starting out. It is hard to imagine that low and slow is the way to go. You will find that most people who have been at it for a long time, tune in to when to slow down. That said, you can heat up to 1000 as fast as the glass will allow. The ramp speed is entirely dependent on the glass configuration relative to the kiln configuration. In my work, low and slow is all about what happens above 1000oF.

\* While you can ramp up to 1000 as fast as the glass will allow, I have found (with BE) that I have better results in a slump when I slow down even below 1000. Don't know why, haven't puzzled it out, but I am happier with the slump when I just take my time ramping 100 dph to 1100 or 1150, holding for 10-20 and then annealing.

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I hear what you are saying about better results. 1000 is an arbitrary even number, that is above the strain points of all of our glasses. Considering that Bullseye softens 80oF before float glass, it makes sense that slowing down Bullseye before 1000 can be helpful.

I believe that what is happening during a typical slow slump is that the core of the glass gets to a point where it bends, and moves, but does not significantly stretch. Once it is hotter, it stretches more. That might not be stated quite right. As the glass gets soft and starts to move, one side compresses and one side stretches in order to take the 2D or 3D shape. When the core of the glass gets too hot, it stretches more and does this quickly. The glass seems to take on a more pleasing shape when this process is slowed down, so the core is moving less.

\* MikefromItaly wrote:

HI people

Seems that my questions are not so silly since these are object of talking.

I think that can be good go slow because slumping can be "managed" better and it is possible to stop a slumping process.

If you go so speed isn't possible...do you agree?

About float glass slumping here is my opinion:

Imagine that float begin to slump at 640C....about.

If i go until 600C i think i have to do more soaking to start slumping ( assume slumping will begin)

If i go to 630C and soak i will be able to manage the process.

If i go over 640C for example to 680C....even without soaking, glass will begin to slumping and it will be difficult "freeze" stop the process.

Anybody agree with my reasoning?

ciao

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