

# Fast Freezing Testing

May 12<sup>th</sup>, 2015



- Samples
  - 4oz taper
  - 8oz taper
  - 16oz round



- We carry out this experiment to imitate your 16oz wide mouth mason jar which will be used in fast freezing process.
- As we do not have 16oz wide mouth jar which is the same as the jar you are using now, we chose some mason jars with similar design and we think these jars could be as the representative in this test.



- Testing Process



- Testing Result



**NO BREAK**



- MARK:

Dry Ice: its normal temperature is  $-78.5^{\circ}\text{C}$ , which means when the glass jar touches it, the glass surface suffers this low temperature. We dip the jars in the dry ice for 1.5min, the operator told us it has been almost  $-45^{\circ}\text{C}$ . After taking the jars out, we did not find any break or crack or even tiny flaws.

**So our conclusion is, our glass jar could endure  $70^{\circ}\text{C}$  temperature difference below normal temperature(our room temperature was  $28^{\circ}\text{C}$ )**

