

FIBER OPTIC CENTER RECEIVING & THAWING PREMIXED and FROZEN SYRINGES



Receiving Procedure: Premixed and Frozen Syringes



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On receipt of your shipment, check to make sure the outer shipping box (not the inner package/bag containing the syringes) still contains dry ice. Do not open the inner syringe package/bag.



Receiving Procedure: Premixed and Frozen Syringes

While wearing insulating gloves, remove inner package/bag (containing syringes) from the shipping box and place entire package into a -40°C freezer. Ideally, this package should be oriented so the syringes are vertical.

NOTE: Boxes left at room temperature for as little as five minutes can result in bubbles known as freeze thaw voids (FTV), which may cause dispensing issues.



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Incoming quantity verification should be done in a manner that keeps syringes as close to the recommended -40°C storage as possible (Prolonged handling will increase the risk of FTV).

TIP: Open shipping box as close to storage freezer as possible. Only transfer material to the freezer one box at a time, to reduce exposure at ambient temperatures.

Contact Us

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Thawing Procedure: Premixed and Frozen Syringes

STEP 1

Thawing Procedure: Premixed and Frozen Syringes

While wearing insulating gloves, remove one syringe from inner package stored in the freezer. Operator should never touch the syringe barrel, only the flange, as this could lead to localized heating of the material and FTVs.

STEP 2

Thawing Procedure: Premixed and Frozen Syringes

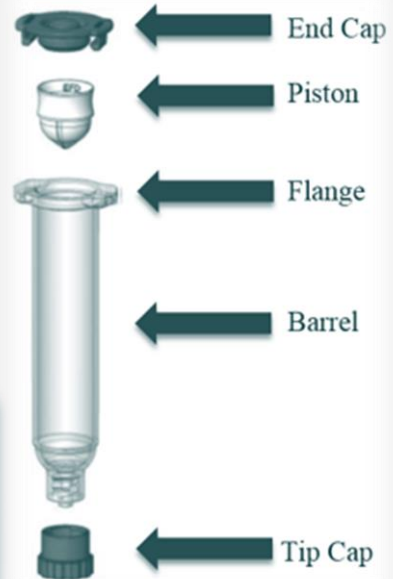
Place the syringe in a vertical test tube rack at ambient lab conditions for thawing. The duration of the thaw will depend on syringe size:

Syringe Size	Thaw Time
1-3 cc	15 min
5 cc	30 min
10cc	40-6 min

STEP 3

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Be sure to wipe off any residual condensation on the syringe barrel before use.



OPTIONAL STEPS

Syringe Rollers:

As an alternative to vertically thawing, a syringe(s) may be placed onto a syringe roller. This is especially important for keeping highly filled systems homogeneous and prevents settling during thawing.

Stepped Thawing:

Instead of transferring syringe(s) from a -40°C freezer directly to ambient for thawing, place into a 0°C freezer overnight (about 16 hours) in a vertical position first. The syringe(s) can then be removed from the 0°C freezer and placed into a vertical rack at start of a shift for quicker thawing time and a lower risk of FTVs.

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