

Application Note:



January 12, 2005

Guidelines for Handling of Syringes

SYRINGE STORAGE:

- Upon receipt of shipment, syringes should be unpacked immediately and stored in the freezer at -10° C - 20°C, -40°C, or per recommendations on TDS. If TDS does not have a recommendation please contact sales@m-coat.com for specific recommendations.
- Do not handle syringes from the body of the packaging. Handle from the ends of the packaging.
- Store syringes vertically (upright) with the tip side down. Do not store syringes horizontally (sideways). Syringes should be stored in this manner until needed for production. The shelf life of syringes will be indicated on the product's technical data sheet.
- Syringes are labeled with product number, lot number, and manufacturing date. The syringes must be used according to the earliest manufacturing date, "FIFO" (first in, first out).
- PREPARING SYRINGES FOR USE:
- To thaw syringes, remove them from the freezer taking care not to handle the body of the syringe (handle from the top and/or the tip) and allow them to acclimate to ambient temperature with the tip down.
- Do not use your hands to warm the syringe.
- The thawing time for each syringe will vary based on mass and composition but a minimum of 40 minutes for 3cc, 5cc, and 10cc and a minimum of 90 minutes for 30cc syringes should be observed.
- Using a heat source to thaw syringes is not advised.
- Proximity to a heat source during thawing should be greater than 3 feet.
- Although most materials can be refrozen minimizing freeze-thaw cycles is recommended.
- Once the material is fully thawed remove the protective wrapping if any.

- SYRINGE INFORMATION:
- MicroCoat Technologies syringes have Luer-lock fittings and are compatible with most types of dispensing equipment.
- MicroCoat Technologies syringes are provided packaged with smooth flow piston technology designed for use on automated or manual dispense equipment but are not hand plunger equipped.
- MicroCoat Technologies routinely provides syringes in volumes of 3cc, 5cc, 10cc, and 30cc. Other sizes may be available upon request.
- Other information regarding syringes can be obtained by sending an email to sales@m-coat.com.