



The ZR Difference

**Bring the
ZR Difference
to the
Sterile Field**

**Excelsior Medical
ZR Sterile Field Flush Syringes
feature:**

- Enhanced labeling to reduce the risk of medication errors.
- Easy open pouch.
- Two convenient packaging configurations:

Two (2) 10/10 mL saline flush syringes in a terminally sterilized pouch, which can be safely dropped onto a sterile field.

One (1) 10/10 mL saline flush syringe in a terminally sterilized pouch, which can be safely dropped onto a sterile field.

- Anti-Reflux Technology* to address syringe related reflux.



Two (2) 10/10 mL
saline flush syringes
(10092 NDC # 63807 010092)

ZR Sterile Flush Syringes are
available in two convenient
packaging configurations.

One (1) 10/10 mL
saline flush syringe
(10091 NDC # 63807 010091)



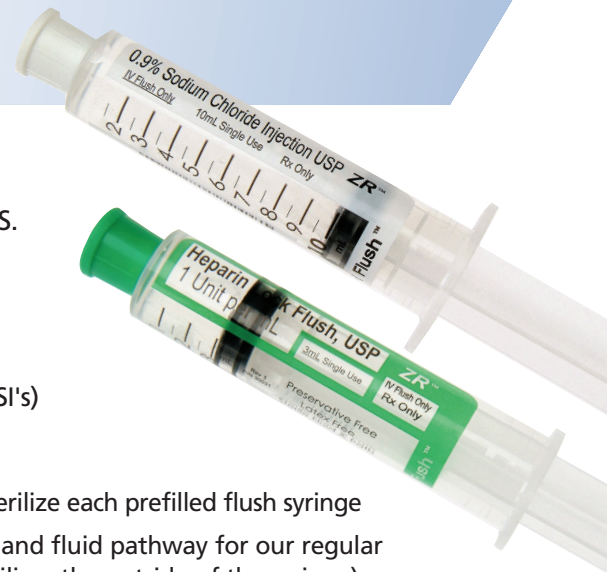
The ZR Difference

*Excelsior
Medical's new
ZR family of
syringes uses
anti-reflux
technology*.*

Anti-Reflux Technology* to reduce syringe-related reflux
Enhanced label helps lower the risk of a medication error
Syringe clarity improves visual inspection of solution

All Excelsior Prefilled Syringes:

- Terminally sterilized for additional safety
- Unit dose packaging – ready to use
- 2 year shelf life
- Barcoded to speed up inventory control and minimize errors
- Latex and preservative free
- Resource effective – staff focus on patient care, not syringe filling
- Helps pharmacy comply with USP <797>



Who is Excelsior Medical Corporation?

- One of the largest prefilled catheter flush syringe manufacturers in the U.S.
- Facilities are FDA registered and ISO 13485-2003 certified
- Over 10 years providing prefilled flush syringes
- Flush products are part of a broad company mission:
 - promote catheter patency
 - reduce the potential for IV catheter related blood stream infections (IVCR-BSI's)

STERILIZATION PROCESS COMPARISON

Terminal Sterilization:	<ul style="list-style-type: none"> • Excelsior Medical uses a proprietary steam process to terminally sterilize each prefilled flush syringe • Terminal sterilization eliminates any microorganisms in the fluid and fluid pathway for our regular line of syringes (and for our Sterile Field Flush products, also sterilizes the outside of the syringe). • Terminal sterilization ensures the probability of a non-sterile unit to be less than 1 in 1,000,000¹
Aseptic Processing :	<ul style="list-style-type: none"> • Aseptic processing is a manufacturing process that requires components to be presterilized and then assembled in an aseptic manner. The final product integrity is dependent upon the manufacturing environment, equipment, process and personnel technique • With aseptic processing it is impossible to scientifically determine the probability of a non-sterile unit¹ • FDA has stated: "It is a well-accepted principle that sterile drugs should be manufactured using aseptic processing only when terminal sterilization is not feasible." September 2004, Pharmaceutical cGMP's



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*Data on file at Excelsior Medical Corporation
¹ Evans, K. "Sterilization Options". Advisory Committee for Pharmaceutical Science, Oct. 2002