

# Your Partner for Biotech Primary Packaging

Do you require special containers for your drug? Please get in contact with our technical support or sales team.

Would you need to evaluate primary packaging containers with your drug? We provide you with samples and offer advice, please approach us.

Do you want to learn more about potential drug/primary packaging interactions? We offer trainings and seminars, either at your site or at Gerresheimer.

Our offer to you:

Information, technical support and services regarding your selection of the right primary packaging solution

- Protein adsorption
- Tungsten residuals
- Leachables and extractables
- Sterilization methods
- Silicone oil level
- Functional properties

# High-quality primary packaging systems for the pharma & life science industry

Gerresheimer is a leading global manufacturer of high quality innovative glass and plastic syringes and vials for highly demanding pharmaceuticals



Gerresheimer has long-time experience supplying parenteral primary packaging containers made from glass and plastics. Take benefit from our knowledge regarding syringes – either bulk or in the RTF® format (Ready-to-Fill).

We offer our support also on the selection of vials, cartridges or ampoules and accompany you in finding the most appropriate container for your new drug products in development.

## Functional properties

- Glass defects
- Staked needle, luerlock, luercone adapters
- Rubber formulations of needle shields and tip caps
- Rubber formulations and coatings of plunger stoppers
- System performance like break loose and gliding forces
- Particle load
- Container closure integrity

## Material properties

- Barrel or vial material
- Glass chemistry, alkalinity and pH issues
- Tungsten level
- Silicone oil level
- Extractables and leachables information
- Permeability

## RTF® syringes

- Standard packaging concepts
- Compatibility with syringe filling lines

## Regulatory requirements

- Ph. Eur., USP, JP requirements regarding primary packaging
- Drug Master File for packaging materials and RTF® process

## Samples for

- Hand samples
- Visual inspection
- Processability trials
- Stability trials
- Validation trials

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