

D2F
Direct To Fill

DIRECT-TO-FILL

STERILIZED PACKAGING SOLUTIONS

GLASS VIALS - LARGE QUANTITY

Nipro PharmaPackaging is specialized in developing and manufacturing advanced pharma packaging products and complete packaging solutions for early development drugs or the enhancement of packaging solutions for existing drugs.

With a worldwide manufacturing footprint of 16 plants, multiple sales offices, and internal lab services, Nipro PharmaPackaging offers an exceptional service platform. Through our personnel, products, and services, Nipro PharmaPackaging enables you to provide a safer and healthier administration to your customers.

Nipro PharmaPackaging is part of Nipro Corporation Japan, established in 1954. As a leading global healthcare company with over 27,000 employees worldwide, Nipro serves the Pharmaceutical, Medical Device, and Pharmaceutical Packaging industries.



Bro-Vials_D2F_LO_Pack-EN - 30.May.18





DIRECT-TO-FILL

STERILIZED PACKAGING SOLUTIONS - LARGE QUANTITY

Nipro PharmaPackaging manufactures D2F™ vials in technologically advanced production sites that are certified according to ISO 9001, ISO 15378, and ISO 14001. Our fully automated packaging process takes place in an ISO 7 / ISO 8 cleanroom with GMP 100% monitoring under laminar air flow.

Glass vials are first loaded into the tray, then the lid and front wall are assembled onto the tray. The assembled packaging system is welded inside an inner and outer Tyvek® breather bag.

Our in-line inspection system allows for continuous quality monitoring as part of In Process Controls (IPC). This ensures that all trays are 100% filled and correctly sealed.

Afterwards, the trays are stacked and loaded into outer boxes. Outer boxes are placed on pallets, protective angle boards are applied, and fixation is ensured with PE-Bands. The total pallet is wrapped in plastic foil to ensure safe transportation.

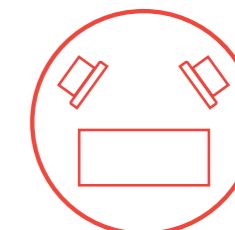
Final packed glass vials are then EO sterilized. Labels on the outer boxes are provided with a special EO indicator (a color change from blue to green after EO exposure). This allows for visual confirmation of EO sterilization and subsequent exposure.



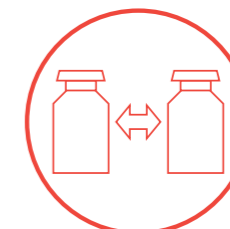
KEY TECHNOLOGIES



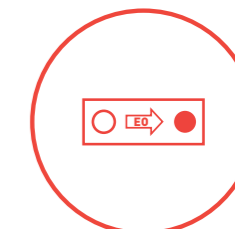
Easy and fast unloading



100% camera inspection



No glass-to-glass contact



Intelligent label

1. Different stacking schemes available.

2. Multiple pallet schemes available.

Nipro's D2F™ Large Quantity packaging design is a smart, efficient choice. It prevents glass-to-glass contact while enabling immediate and fast unloading of vials onto the filling line. In essence, Direct-to-Fill.