

D2F™ DIRECT-TO-FILL

STERILIZED PACKAGING SOLUTIONS

GLASS VIALS

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.



D2F®

NIPRO
PHARMAPACKAGING

Sterile Std Vials 10R - RTU

Art. No.: DF066-002-0001-002

BNRP: NPP-E09V01

Qty.: 42 pcs.

BNRST: ST-E006

"Do not use if packaging is damaged"



Bro-Vials_D2F_Pack-EN - 30.May18



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.



1. Different stacking schemes available (depending on type of tub).
2. Multiple pallet schemes available.

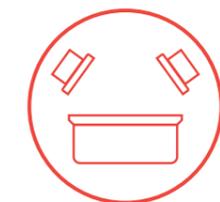
Nests and tubs are first cleaned with ionized air to minimize particle load. Robots load the washed glass vials into nests and tubs. The tubs are covered with a Tyvek® insert, sealed with a corresponding Tyvek® lid, and then entered into a breather bag which is welded closed (double inserts & breather bags optional).

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

Afterwards, machines transfer the tubs to a station for final packing. Tubas are stacked and placed in 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 tubs and 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.

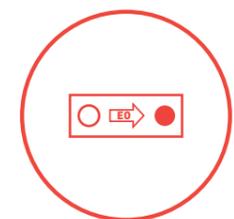
KEY TECHNOLOGIES



100% camera inspection



No glass-to-glass contact



Intelligent label

Nipro's D2F™ packaging design is a smart, efficient choice. It prevents glass-to-glass contact while enabling immediate and direct use on the filling line. In essence, Direct-to-Fill.