

Applications

Pharmaceutical

Biological

Diagnostic

Lyophilization (Freeze Drying)



PACKAGING
PRODUCTS

Product Highlights

Ultra Pure Stoppers

- High level of chemical purity
- Specially engineered Bromobutyl formulation complies with USP, EP and JP
- Very low extractables
- Very low level of moisture absorption
- WFI compatible
- Straight Plug Style and Lyophilization styles available
- Method of Sterilization: Steam Autoclavable, Gamma

Complete Coat Stoppers

- Entire stopper is completely coated with fluorinated polymer
- Highly chemical resistant
- Currently available in a straight plug style
- Manufactured in a silicone free environment
- Method of Sterilization: Steam Autoclavable

Premium Stoppers



Straight Plug



2-Leg Lyophilization



3-Leg Lyophilization



Igloo Lyophilization

Ultra Pure Stoppers

Ultra Pure Stoppers are made from an ultra pure bromobutyl formulation with extremely high chemical purity and low gas permeability. The compound is free of latex, nitrosamines and 2-MCBT (2-mercaptobenzothiazole). This purity provides compatibility with applications such as Water for Injection (WFI) where rubber extractables cause problems. The bromobutyl compound complies with European, US and Japanese Pharmacopoeias. We offer 2 styles of Ultra Pure Stoppers:

Straight Plug

These stoppers have low particulate content and low level of extractables. These stoppers remain stable when exposed to gamma irradiation of over twice the normal nominal dose for parenteral applications. This makes them very well suited for Ready-for-Sterilization and Ready-for-Use Applications.

Part No.	Mouth ID x OD (mm)	Material Description	Qty/Case
W015360	7 x 13	Gray Bromobutyl / 47	20,000
W015363	7 x 20	Gray Bromobutyl / 47	6,000

Lyophilization

These stoppers are available in 2-leg, 3-Leg and Igloo styles. These stoppers demonstrate a very low level of moisture adsorption. They also feature very low adsorption of the preservatives present in aqueous parenteral solutions.

2-Leg Lyophilization

Part No.	Mouth ID x OD (mm)	Material Description	Qty/Case
W015346	7 x 13	Gray Bromobutyl / 46	18,000
W015362	13 x 20	Gray Bromobutyl / 46	4,000

3-Leg Lyophilization

Part No.	Mouth ID x OD (mm)	Material Description	Qty/Case
W015364	13 x 20	Gray Bromobutyl / 46	4,000

Igloo Lyophilization

Part No.	Mouth ID x OD (mm)	Material Description	Qty/Case
W015361	7 x 13	Gray Bromobutyl / 46	13,000
W015365	13 x 20	Gray Bromobutyl / 46	4,000

Complete Coat

The Complete coat stopper is manufactured in a silicone free environment then completely coated with a fluorinated polymer. Due to the barrier properties of the coating, which are similar to Tfe[®], chemical reactions due to contact with the rubber in the stopper are virtually eliminated.

Part No.	Mouth ID x OD (mm)	Material Description	Qty/Case
W015366	7 x 13	Gray Bromobutyl / 39	16,000
W015367	13 x 20	Gray Bromobutyl / 39	5,000



WHEATON

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