

## West's Advanced Elastomer: 4040/40

Designed with the  
Future in Mind

### West's 4040/40 Formulation:

Performance and Versatility to Satisfy Increasingly Complex Drug Delivery

4040/40 delivers reliability and functionality that comes from a scientifically developed formulation paired with West's nearly 100 year leadership in injectable drug containment and administration.



### New and Versatile Chlorobutyl Platform:

- Quality-by-Design (QbD) approach to material selection and component analysis
- Expert level of ingredients understanding
- Low particulate levels by design
- Risk-mitigated raw materials with secondary sources

Key Features	Data and Products
Low particulate	Ingredient selection, formulation and Westar® Select process optimized to reduce particles
Low extractable/leachable risk	Carefully-designed formula without BHT and bromoform, and proven reduction of other potentially problematic extractables <sup>1</sup>
Multiple piercing/low fragmentation	Up to 18G needles met USP <381> & EP 3.2.9
Low risk of moisture exposure	Formula optimized for low moisture content
Steam and gamma sterilizable	Designed for steam or gamma up to 45 KGy in a variety of packaging options
Raw materials risk mitigation	Multiple sources tested and documented for each ingredient
Improved lyophilization yield	LyoTec® stopper technology

<sup>1</sup> Extractables and leachables profiles are determined by the interaction of the drug with its container and must be tested for each different drug-container combination

## LyoTec in 4040/40: A New Westar Select Stopper

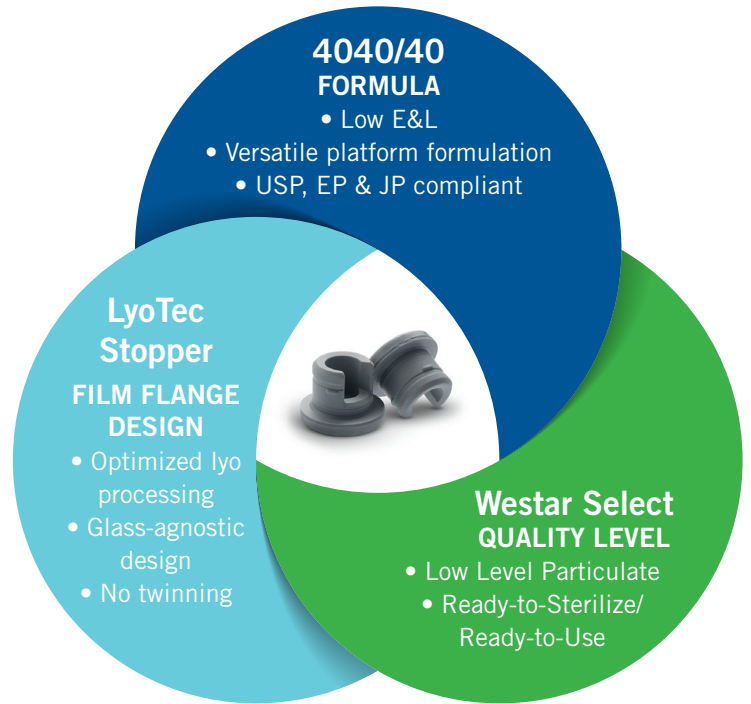
Designed with the future in mind with proven lyophilization design and optimized pharmaceutical wash processing

### Lyophilization: Increasing Demand Brings Greater Challenges

The increasing volume of drugs in lyophilized formats have challenged pharmaceutical manufacturers to find higher quality elastomer components to meet today's quality expectations. Manufacturers must balance the needs of pipeline products with the imperative of updating and consolidating legacy component platforms.

### Tested and True Meets Modern and New

Two LyoTec stopper designs are available in the 4040/40 formulation in a wide range of finishes and packaging options from West's most modern production sites.



Size	Initial Offering (Steri-Bag)	Finish	Quality Process
13mm (V-50-I)	1,000 pieces	Ready to Sterilize	Westar Select Envision®
		Ready to Use	Westar Select Envision
20mm (S-87-I)	450 pieces	Ready to Sterilize	Westar Select Envision
		Ready to Use	Westar Select Envision

For more information visit [www.westpharma.com](http://www.westpharma.com)

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