

Plungers Intended for Cartridges - General Information

Article	Description	Drawing Number	Recommended Formulations	Film/Coating Applied	Packaging	Post-Processing Availability	Typical Applications
2240	1 mL Cartridge Plunger	2240	4023/50 Gray 4432/50 Gray	Silicone Oil	Ported Bag and Standard Bag Offerings	Westar™ RS Quality Level Westar™ Quality Level (Steam)	Dental, Insulin, Pen Systems, and Devices
West	1.5mL FluroTec® Cartridge Plunger	WP-454	4023/50 Gray	FluroTec™ Barrier Film with B2 Coating			
2223	3mL Cartridge Plunger	2223	4023/50 Gray 4432/50 Gray	Silicone Oil			
West	3mL NovaPure® Plunger	WP-457	4023/50 Gray	FluroTec™ Barrier Film with B2 Coating	Ported Bag and Standard Bag Offerings	NovaPure® RU (Steam)	Dental, Insulin, Pen Systems, and Devices
2360	5-10mL FluroTec® Cartridge Plunger	2360	4023/50 Gray	FluroTec™ Barrier Film with B2 Coating	Ported Bag and Standard Bag Offerings	Westar® Select RU (Steam)	Large volume injector systems

Lined Seals

Article	Description	Sealing Performance/ Recommended Number of Punctures	Drawing Number	Recommended Formulations	Film/Coating Applied	Packaging	Post-Processing Availability	Typical Applications
Art 6174	8mm Lined Seals	≤ 5 Punctures	6174	4023/50 Gray 4432/50 Gray	NA	Ported Bag and Standard Bag Offerings	Westar™ RS Quality Level Westar™ RU Quality Level (Steam)	Dental, Insulin, Pen Systems, and Devices
Art 6194	8mm Lined Seals	> 5 Punctures	6194	4780/40 Cream + 7778/40 Gray (bi-laminate)	NA	Ported Bag and Standard Bag Offerings	Westar™ RS Quality Level Westar™ RU Quality Level (Steam)	Dental, Insulin, Pen Systems, and Devices
Art 6125	NovaPure® 8mm Lined Seals	≤ 5 Punctures	6125	4023/50 Gray	FluroTec™ Barrier Film with B2 Coating	Ported Bag and Standard Bag Offerings	NovaPure® RU (Steam)	Biologics, Pen Systems, and Devices

Definitions:

NovaPure® components are West's premium line of stoppers and plungers, offering the tightest particulate specification available for West elastomer products. NovaPure components combine the protection of FluroTec™ barrier film, 100% vision verification and lot-to-lot extractables testing.

Westar™ Select quality level components are a high-quality option of pharmaceutical washed products with a defined global portfolio that offer a tighter visible particulate specification and enhanced AQL program. Components are available in both ready-to-use (RU) and ready-to-sterilize (RS) formats.

Westar™ RS (ready-to-sterilize) quality level components undergo a validated pharmaceutical wash process to ensure they are ready for steam or gamma sterilization.

Westar™ RU (ready-to-use) quality level components undergo a validated steam sterilization process after a validated pharmaceutical wash process to produce components for direct introduction into filling operations.

FluroTec™ barrier film protects drugs from contamination by providing an effective barrier minimizing interaction between the drug and the closure while maintaining container closure integrity.

B2 Coating is a polydimethylsiloxane coating sprayed onto the surface of the plunger and UV cured, providing lubricity, with the benefit of not having free silicone. The solution and application process technology are licensed from Daikyo.

