



# BD SCF™ PremiumCoat™<sup>\*</sup>

1mL Plunger Stopper

Supporting the delivery of  
biologics in 1mL prefilled  
systems



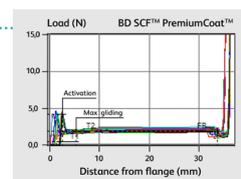
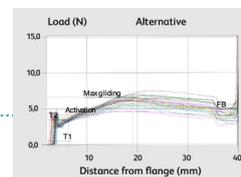
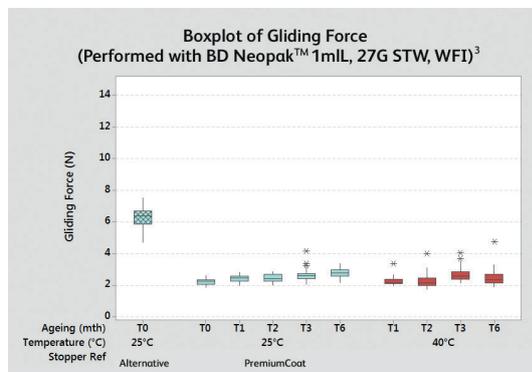
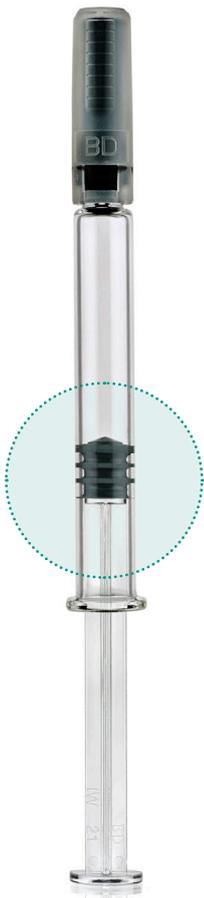
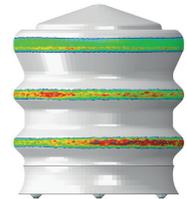
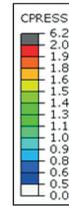
<sup>\*</sup> PremiumCoat™ is a trademark of Aptar Pharma



# The BD SCF™ PremiumCoat™ Plunger Stopper

Designed to serve the evolving needs of pharmaceutical organizations in the development of combination products for chronic diseases<sup>1</sup>

- ◀ **Specialized, state-of-the-art rubber formulation (6720GC) with a proven<sup>2</sup> Ethylene tetrafluoroethylene (ETFE) film technology to help de-risk drug-container interaction<sup>2</sup>**
- ◀ **Developed using a new process technology, designed to support container closure integrity**  
As simulated through Finite Element Analysis of stopper/barrel contact pressure, at minimal dimension interferences<sup>3</sup>
- ◀ **Designed using a patient centric approach to support patient usability<sup>4</sup>**
- ◀ **Enhanced functional performance - reduced glide force and glide force variability by up to ~65% and ~54% respectively aimed to help achieve efficient, comfortable and more reliable injection even with high drug viscosities<sup>4\*</sup>**



Alternative = BD FluroTec™<sup>4\*\*</sup> Plunger Stopper STW= Special Thin Wall WFI= Water For Injection



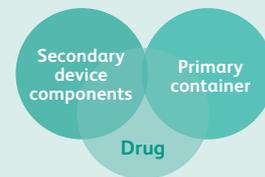
**BD SCF™ PremiumCoat™ quality is verified** through BD Visioguard™ 100% camera inspection<sup>5</sup>:

- To enable a decrease in on-line reject rates due to defects and foreign matter contamination to help improve operational efficiency.

Commercializing a combination product can come with many challenges<sup>6</sup>. The BD SCF™ PremiumCoat™ Plunger Stopper aims to enable drug protection<sup>6</sup> from component interaction, while improving delivery system performance.<sup>5</sup> To help de-risk combination product development, BD offers a robust system performance data package<sup>oo</sup> to support pharma companies in incorporating BD SCF™ PremiumCoat™ into their combination products.

**When combined with BD Chronic Drug Delivery Solutions<sup>4,5</sup>**

- Glass Prefillable Syringe: BD Neopak™ and BD Neopak™ XSi™
- Disposable Autoinjector: BD Intevia™
- Passive Needle Guard System: BD UltraSafe Plus™



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Becton Dickinson France S.A.S.  
Share capital: 63 356 160 €  
RCS Grenoble B 056 501 711

- REF-9098 - Prefilled Syringe Customer Requirements Research, Voice of the Customer [internal study], Le Pont-de-Claix, France; Becton, Dickinson and Company, 2018
  - BD SCF™ PremiumCoat™ 1mL Plunger stopper simulated extractables and leachables study [internal study], Pont-de-Claix, FR; Becton Dickinson and Company; 2019
  - BD SCF™ PremiumCoat™ 1mL Plunger stopper finite element analysis simulating contact pressure [internal study], Pont-de-Claix, FR; Becton Dickinson and Company; 2019
  - REF- 22458 BD SCF™ PremiumCoat™ 1mL Plunger stopper Gliding performance Pre-DV data [internal study], Pont-de-Claix, FR; Becton Dickinson and Company; 2019
  - REF-17753 - BD SCF™ PremiumCoat™ 1mL R&D data\_ [internal study], Le Pont-de-Claix, France; Becton, Dickinson and Company, 2020
  - REF-11879 - "Challenges with System Integration" [external study], Franklin Lakes, NJ, USA; GLG 2019 Double blinded qualitative market research with 8 industry experts. Participants worked directly on drug development projects, requiring combination devices (primary and secondary containers) and included the assembly of PFS and/or PFS with autoinjectors.
- <sup>o</sup> PremiumCoat formulation and film technology has been commercialized by Aptar in vial stopper format  
<sup>+</sup> Viscous solutions up to 35cP-When compared to an identical system combined with BD SCF™ Fluro Tec™<sup>4\*\*</sup>  
<sup>\*</sup> PremiumCoat is a trademark of Aptar Pharma.  
<sup>\*\*</sup> FluroTec is a trademark of West Pharmaceutical Services, Inc.  
<sup>\*\*\*</sup> End user = Self-injecting experienced using a BD Neopak Prefillable Glass syringe, BD SCF PremiumCoat Plunger Stopper, and backstop by Chronic disease patients (N=15) health care workers (N=8). Gliding forces range tested [7,2N - 28N], Activation force range tested [7,5N - 33,2N]  
<sup>^</sup> Functional performance such as glide force and glide force variability when compared to an identical system combined with BD SCF FluroTec Plunger Stopper.  
<sup>oo</sup> System delivery data packages are offered on specific configurations

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