



BD SCF™ PremiumCoat™*

1mL Plunger Stopper

Supporting the delivery of
biologics in 1mL prefilled
systems



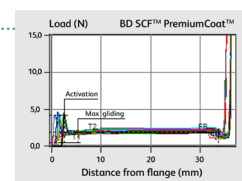
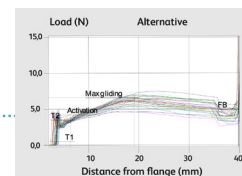
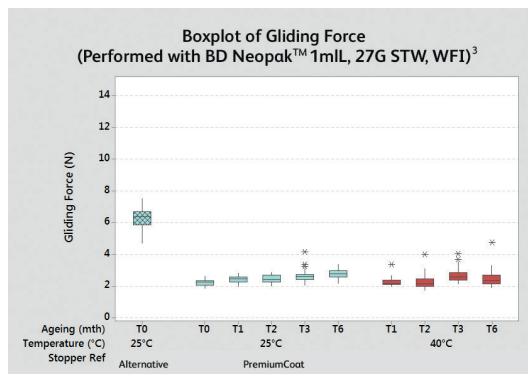
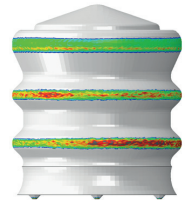
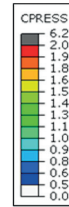
* PremiumCoat™ is a trademark of Aptar Pharma



The BD SCF™ PremiumCoat™ Plunger Stopper

Designed to serve the evolving needs of pharmaceutical organizations in the development of combination products for chronic diseases¹

- ◀ **Specialized, state-of-the-art rubber formulation (6720GC) with a proven^{*} Ethylene tetrafluoroethylene (ETFE) film technology to help de-risk drug-container interaction²**
- ◀ **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 interferences³
- ◀ **Designed using a patient centric approach to support patient usability^{***}**
- ◀ **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 viscosities⁴⁺**



Alternative = BD FluroTec™^{***} Plunger Stopper STW= Special Thin Wall WFI= Water For Injection



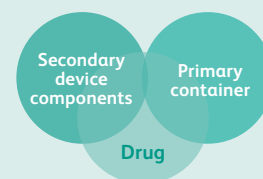
BD SCF™ PremiumCoat™ quality is verified through BD Visioguard™ 100% camera inspection⁵:

- 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 challenges⁶. The BD SCF™ PremiumCoat™ Plunger Stopper aims to enable drug protection⁶ from component interaction, while improving delivery system performance.⁵ To help de-risk combination product development, BD offers a robust system performance data package^{oo} to support pharma companies in incorporating BD SCF™ PremiumCoat™ into their combination products.

When combined with BD Chronic Drug Delivery Solutions^{4,5}

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



BD Medical
Pharmaceutical Systems
United States
1 Becton Drive
Franklin Lakes, NJ 07417
+1 800 225 3310
Europe
11 rue Aristide-Bergès
38800 Le Pont-de-Claix
France
Phone: +33 4 76 68 36 36
Fax: +33 4 76 68 35 05
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.
- ^o PremiumCoat formulation and film technology has been commercialized by Aptar in vial stopper format
⁺ Viscous solutions up to 35cP-When compared to an identical system combined with BD SCF™ Fluro Tec™^{***}
^{*} PremiumCoat is a trademark of Aptar Pharma.
^{**} FluroTec is a trademark of West Pharmaceutical Services, Inc.
^{***} 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]
[^] Functional performance such as glide force and glide force variability when compared to an identical system combined with BD SCF FluroTec Plunger Stopper.
^{oo} System delivery data packages are offered on specific configurations

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