

Nextech-X

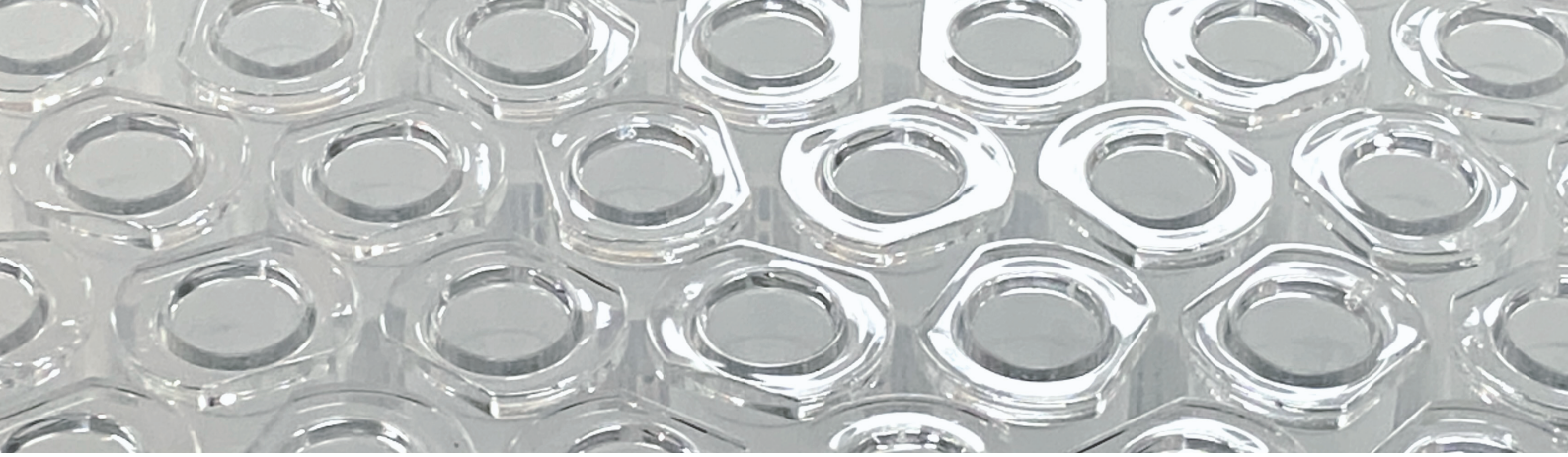
Cyclo Olefin polymer (COP) Pre-filled Syringe

For storage and administration of biological agents, medical and aesthetic products



- Safety
- Stability
- Compatibility
- Impact resistance

* The registration of pharmaceutical packaging material has been completed in the Center for Drug Evaluation (CDE)



Cyclo Olefin polymer (COP) Pre-filled Syringe

Based on the improvement of traditional glass pre-filled syringe, a better medicinal pre-filled packaging material (COP) is used to meet the demands of highly sensitive and high viscosity drug product. The product has been registered in CDE for pharmaceutical packaging material.

* Filing name: Cyclo Olefin Polymer (COP) Pre-filled Syringe Assembly

Product Characteristics



More reliable product performance

- High strength and impact resistance
- Highly transparent, exquisite
- Low temperature resistance, wider applicability

Higher biocompatibility

- High purity, greatly reducing dissolved matter
- Good drug compatibility and stability
- Low protein adsorption
- High pH tolerance, no change of pH value
- Free of metal ions



Safer and more accurate use

- Integrated injection molding standard Luer lock can avoid needle falling off and reduce the risk of liquid leakage
- High processing plasticity
- Extremely low manufacturing tolerance
- Less residual amount of liquid medicine

Customization

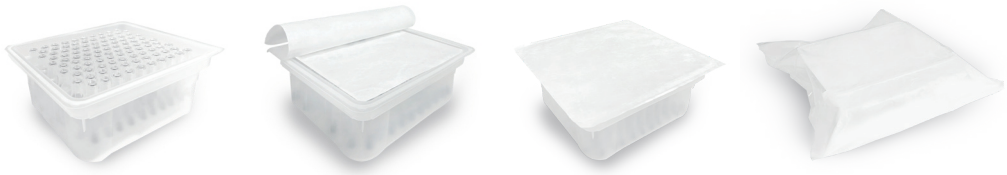
- Multiple capacity specifications
- Multiple sterilization methods
- Silicone-oil-free system (optional)
- Customized push rod / finger grip

Applications

Biological Agents	Medical and Aesthetic	Others
Tumor, immune, psychiatric, vaccine, ophthalmic injection, etc	Sodium hyaluronate, collagen, bioactive bone, various microspheres，etc	Hemostatic gel, biosynthetic material, implant gel, etc

Pre-filled Syringe





Model /spec.	Barrel Height (without Guard cap)	Nominal Capacity	Coating	Material of Hard Shell Rubber Cap	Packaging	Sterilization Method
0.5ml	64.5mm	0.5ml	Optional Low Viscosity Silicone Oil High Viscosity Silicone Oil Silicone-Oil-Free	Styrene Butadiene Blend Polymerization Isoprene +PP Hard Shell	Nest Box, 100 Pieces/Box Header Bag (with silicone oil) Breathing Bag (without silicone oil)	Steam Sterilization EO Sterilization
1ml-L	64.5mm	1.0ml				
1ml-UL	90.5mm	1.0ml				
1ml-XL	82.5mm	1.0ml				
1.5ml	77.0mm	1.5ml				
2.25ml	64.5mm	2.25ml				
3ml	81.5mm	3.0ml				

Accessories







Component	Dimensions	Material	Coating	Packaging	Sterilization Method
Plunger	0.5 ml 1ml-L 2.25ml	Optional Butyl Chloride Bromobutyl	Optional Film Coating Standard Silicone Oil Silicone-Oil-Free Coating	PE Bag Breathing Bag	Irradiation Sterilization (under verification) Steam Sterilization
Push Rod	0.5ml 1ml-L 1ml-UL 1ml-XL 1.5ml 2.25ml 3ml	Polystyrene Polycarbonate Polypropylene (Customizable)	——	PE Bag	——
Finger Grip	0.5ml/1ml-L 1ml-UL/1ml-XL 2.25ml/3ml	ABS Polypropylene	——	PE Bag	——

Precision Control Syringe

This product is a micro-dose control device for use with sterile syringes or pre-filled syringes, and is suitable for precision injection in multiple fields. It can be applied to the injection of highly sensitive and high value-added biological agents in ophthalmology, vaccines, and other fields. Nextech-X provides a comprehensive solution of silicone-oil-free system and high-precision injection.

* Silicone oil can easily lead to protein agregation, reduce drug effectiveness, and easily cause the safety risks.
* In 2014, FDA issued a guideline for immunogenicity evaluation of therapeutic protein drugs and gave a warning to silicone oil.

Product Characteristics

- Silicone-oil-free plunger + silicone-oil-free syringe: no silicone oil particles
- Very low residue: < 70μL (in line with national mandatory standard GB 15810-2019)
- Control accuracy: 50μL±5μL / 100μL±10μL / 200μL±20μL



Specifications

Model/spec.	Nominal Capacity	Precision Control	Packaging	Sterilization Method
1mL ultra-slender	1.0mL	50μL 100μL 200μL None	Hard Blister Packaging (PETG) + Tyvek	Irradiation Sterilization

Nextech-X

Hangzhou Qiantang Longyue Biotechnology Co., LTD.

Hangzhou Qiantang Longyue Biotechnology Co., Ltd. is committed to the customized research and development (R&D) and production of new drug transfer and delivery systems (ophthalmology/vaccine/medical and aesthetic injection), high-end pharmaceutical packaging materials and new medical equipment combination devices (biological drugs). Founded in 2021, the company has a Class 10,000 (Class C) cleanliness production workshop in line with GMP requirements and perfect physical, chemical, and microbiological laboratories, has established a quality management system of R&D, production, and testing as per global laws and regulations, and passed ISO 13485 system certification.

Perfect quality management system

ISO 13485 System Certification (April 2022)
Global regulatory support and product registration (CDE, FDA, CE)

Experienced R&D team

Technical R&D team composed of more than 60 persons
More than 1/3 of members have long-term experience in well-known medical device companies

Complete physical, chemical, and microbiological laboratories

250m^2 laboratory, 3 Class 10,000 microbiology laboratories
More than 65 units/sets of experimental equipment, and advanced inspection and research equipment

Large-scale ISO7/C clean production workshop

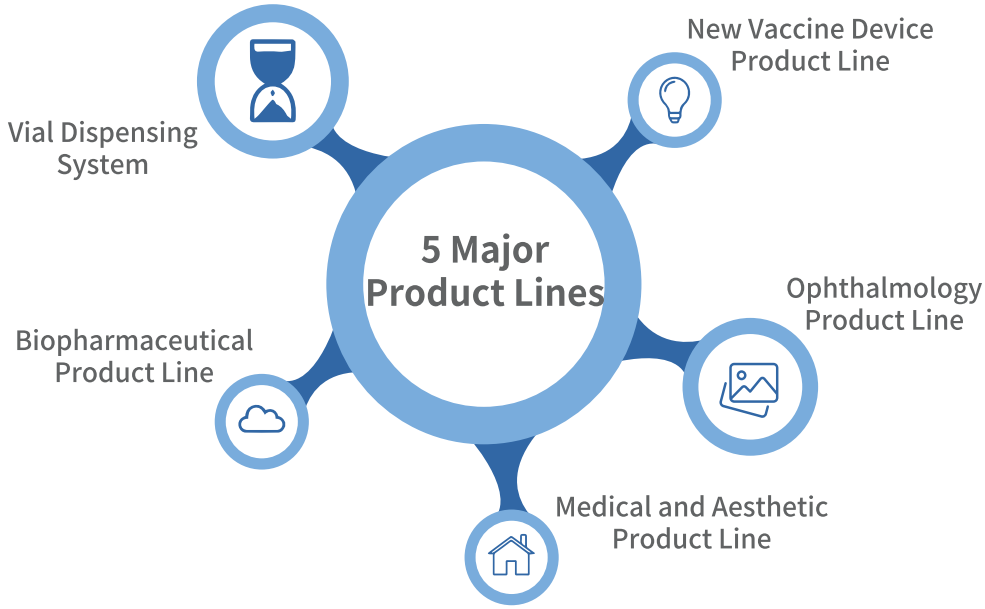
Production according to Class C/Class 10,000 clean workshop standard
3500m^2 clean workshop and 11000m^2 workshop area

Continuous and efficient research and development progress

A total of more than 80 product specifications have been certified
5 Class II certificates (China, FDA) and 13 pharmaceutical packaging registrations

High precision production equipment and automatic production line

More than 20 units of high-precision production equipment
5 automated production lines





Specifications

Product	Dimensions、Model							Remarks
	0.5ml	1ml-L	1ml-UL	1ml-XL	1.5ml	2.25ml	3ml	
Pre-filled Syringe Assembly	PC-S050	PC-S100L	PC-S100UL	PC-S100XL	PC-S150	PC-S225	PC-S300	High Viscosity Silicone Oil /Polyisoprene Protective Cap +PP Hard Shell
	PC-T050	PC-T100L	PC-T100UL	PC-T100XL	PC-T150	PC-T225	PC-T300	Low Viscosity Silicone Oil /Polyisoprene Protective Cap +PP Hard Shell
	PC-F050	PC-F100L	PC-F100UL	PC-F100XL	PC-F150	PC-F225	PC-F300	Silicone Oil Free /Polyisoprene Protective Cap +PP Hard Shell
Plunger	PS-BN0500DW	PS-BN100LDW	PS-BN0500DW	PS-BN0500DW	PS-BN100LDW	PS-BN100SDW	PS-BN100SDW	Brominated Butyl Coating
	PS-CS0500AS	PS-CS100LAS	PS-CS0500AS	PS-CS0500AS	PS-CS100LAS	PS-CS100SAS	PS-CS100SAS	Chlorinated Butyl Silicone Oil
	PS-BS0500DW	PS-BS100LDW	PS-BS0500DW	PS-BS0500DW	PS-BS100LDW	PS-BS100SDW	PS-BS100SDW	Brominated Butyl Silicone Oil
	PS-CC0500SZ	PS-CC100LSZ	PS-CC0500SZ	PS-CC0500SZ	PS-CC100LSZ	/	/	Silicone Oil Free Chlorinated Butyl Coating
Push Rod	PR-050	PR-100L	PR-100UL	/	/	PR-225	PR-300	Polystyrene
	/	PR-C100L	PR-C100UL	PR-C100XL	/	/	PR-C300	Polycarbonate
	PR-P050	PR-P100L	/	/	PR-P150	PR-P225	PR-P300	Polypropylene
Finger Grip	BS-A100L	BS-A100L	BS-A100L	BS-A100L	BS-A100L	BS-A100S	BS-A100S	ABS
	BS-P100L	BS-P100L	BS-P100L	BS-P100L	BS-P100L	BS-P100S	BS-P100S	Polypropylene

Product	Precision Control、Model				Nominal Capacity
	50μL	100μL	200μL	None	
Precision Control Syringe (without silicone oil)	SS-C1A5	SS-C1A10	SS-C1A20	SS-C1	1.0ml

Nextech-X

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