



50.0 ml Volume Product Specifications



Catalog No.	Description
1005180	50.0 ml Glass Syringe - Interchangeable borosilicate glass syringe with permanently fused graduations and unique identifier. Reinforced flanges are flat on two sides to avoid rolling. Supplied with metal luer-lock tip.

Dimensions

Piston Outside Diameter	27.45 mm ± 0.20 mm
Barrel Diameter Outside (D1)	32.35 mm ± 0.55 mm
Barrel Collar Diameter (D2)	44.00 mm ± 0.75 mm
Piston Collar Diameter (D3)	34.05 mm ± 0.65 mm
Length (L)	178.00 mm ± 0.50 mm
Increment	2.0 ml
Volume	50.0 ml ± 1.5% of volume

Glass Properties

Expansion coefficient	52 ± 10 ⁻⁷ /centigrade
Density	2.36g ± 0.02g cm ³
Modulus of elasticity	64 ± 10 ³ mm ⁻²
Water resistance	First Class
Acid resistance	First Class
Alkali resistance	First Class
Softening point	785 °C
Melting temperature	1260 °C
Strain point	525 °C
Annealing point	570 °C
Hardness	7
Color	Clear

- The syringe is made from heat resistant borosilicate glass.
- The material and construction is resistant to breakage from shock and sudden temperature changes.
- It is annealed and tested until free of internal strain, to withstand repeated washing with hot water.
- Reinforced at luer lock tip and barrel base, the points at which most breakage occurs.
- The cylinder-plunger fit is leak proof and meets the requirements of Federal Specification GG -S- 921b.
- Plunger is individually ground and fitted to barrel for smooth movement with no back flow.
- Barrel rim is flat on both sides to prevent rolling and is wide enough for convenient finger tip grip.
- The syringes available in universal fit or custom fit design. The custom fit syringes are uniquely numbered for matching.
- The metal luer lock tip meets the specification of American National Standards for Medical Materials luer taper fitting performance, HIMA MD 70.1 - 1983.
- The fitting is made from chrome-plated brass and fits all female luer lock fitting.
- The syringe is clearly marked with graduations of 2.0 ml and 10.0 ml. The graduations are permanently fused for lifetime legibility.

How to reach NTT

For routine requests for information, you can contact us via phone, mail, or e-mail through the internet at info@nttworldwide.com or through our website: <http://www.nttworldwide.com>

Business hours:	Pacific Standard Time	Monday through Friday 9:00 AM - 5:00 PM	
Phone:	916-383-6800	Shipping/Mailing	Northern Technology & Testing
Fax:	916-383-7794	Address:	8140 Industrial Parkway, #8
Toll Free:	800-590-0688		Sacramento, CA 95824