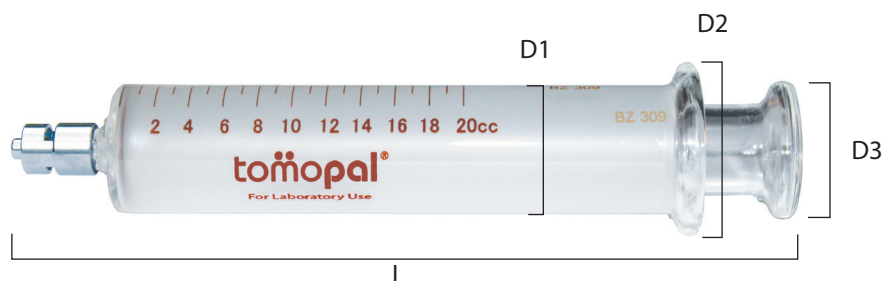


## 20ml Glass Syringe - Laboratory with metal luer lock



Tomopal Part #	130-4520
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<b>Piston Outside Diameter:</b>	19.60 mm ± 0.20 mm
<b>D1) Barrel Diameter Outside:</b>	23.60 mm ± 0.40 mm
<b>D2) Barrel Collar Diameter:</b>	34.40 mm ± 0.75 mm
<b>D3) Piston Collar Diameter:</b>	24.20 mm ± 0.65 mm
<b>L) Length:</b>	143.70 mm ± 0.50 mm
<b>Increment:</b>	1.0 ml
<b>Volume:</b>	20.0 ml ±1.5% of volume

### Features:

- 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 occur.
- 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 are available in custom fit design. The custom fit syringes are uniquely numbered for matching piston and barrel.
- 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 metal luer lock fitting is made from nickel-plated brass and fits all female luer lock fittings.
- The syringe is clearly marked with graduations of 1.0 and 2.0 ml. The graduations are permanently fused for lifetime legibility.

### Glass Properties:

<b>Expansion coefficient:</b>	52 +/- 10 <sup>-7</sup> / Centigrade	<b>Softening point:</b>	760 @ degrees centigrade
<b>Density:</b>	2.33g +/- 0.03g CM <sup>3</sup>	<b>Melting temperature:</b>	1250 @ degrees centigrade
<b>Modulus of elasticity:</b>	64 +/- 10 <sup>3</sup> mm <sup>-2</sup>	<b>Strain point:</b>	500 @ degrees centigrade
<b>Water resistance:</b>	First Class	<b>Annealing point:</b>	545 @ degrees centigrade
<b>Acid resistance:</b>	First Class	<b>Hardness:</b>	7
<b>Alkali resistance:</b>	First Class	<b>Color:</b>	Clear