

## 200ml Glass Syringe with 3/8" UNF Threaded Nut



Tomopal Part #	140-8200
----------------	----------

<b>Piston Outside Diameter:</b>	42.20 mm ± 0.25 mm
<b>D1) Barrel Diameter Outside:</b>	48.00 mm ± 0.75 mm
<b>D2) Barrel Collar Diameter:</b>	62.00 mm ± 0.75 mm
<b>D3) Piston Collar Diameter:</b>	54.00 mm ± 1.00 mm
<b>L) Length:</b>	286.50 mm ± 0.65 mm
<b>Increment:</b>	5.0 ml
<b>Volume:</b>	200.0 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 3/8" UNF threaded tip and barrel base, the points at which most breakage occur.
- 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 are available in custom fit design. The custom fit syringes are uniquely numbered for matching piston and barrel.
- The 3/8" UNF threaded nut fitting is made from stainless steel or chrome-plated.
- The syringe is clearly marked with graduations of 5.0 ml and 20.0 ml. The graduations are permanently fused for lifetime legibility.

### Glass Properties:

<b>Expansion coefficient:</b>	52 +/- 10 <sup>-7</sup> / Centigrade
<b>Density:</b>	2.36g +/- 0.03g CM <sup>3</sup>
<b>Modulus of elasticity:</b>	64 +/- 10 <sup>3</sup> mm <sup>-2</sup>
<b>Water resistance:</b>	First Class
<b>Acid resistance:</b>	First Class
<b>Alkali resistance:</b>	First Class

<b>Softening point:</b>	785 @ degrees centigrade
<b>Melting temperature:</b>	1260 @ degrees centigrade
<b>Strain point:</b>	525 @ degrees centigrade
<b>Annealing point:</b>	570 @ degrees centigrade
<b>Hardness:</b>	7
<b>Color:</b>	Clear