



**LEADING MANUFACTURER
OF MEDICAL SYRINGES AND
HYPODERMIC NEEDLES
ISO/cGMP CERTIFIED**



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Over 20 years ago, our founder started the Company as a small distributor of medical devices in the growing market in Russian Federation. With all of its' unique challenges and uncertainties this was not an easy task as the economy and business culture of this country was in its developing phase post breakup of the Soviet Union. Primary goal was to provide medical practitioners and hospital systems with quality and on-time supply of medical syringes and IV sets.

After establishing itself as a reliable distributor and in order to provide better products and services to end-users, in 2005 a decision was made to initiate our own in-house manufacturing capabilities to satisfy growing demand in the market for high quality medical devices. Innovative manufacturing and advanced production equipment resulted in creation of consistent production of highest quality products and delivery of superior customer service to our clients. Today, Premier-Med is a largest manufacturer of medical syringes and IV sets in Russian Federation with a stellar reputation for product quality, regulatory compliance, social responsibility and client support and service. This allows us to offer our clients a wide range selection of in-demand medical devices and production capacities to fill orders of any volume with capability of consistent on-time global delivery.

Our mission is to always provide medical practitioners and patient end-users with highest quality medical devices to facilitate delivery of best medical practices and care to improve patients' experience and life.





PRODUCT DESCRIPTION:

Our piston injection syringes are sterile and designed for subcutaneous, intramuscular and intravenous administration of medicines, as well as for injections of insulin and tuberculin. These products are indispensable for most types of medical treatment in various settings. Our syringes are cost effective, safe and are easy to use.

Premier-Med specializes in manufacturing of three-piece sterile single-use syringe which feature easy, smooth piston movement. It has been achieved through the use of a rubber stopper seal. Such products are used when slow, strictly measured volume injection of drugs is required. The barrel tip for attaching the needle can be located in the center or offset to the edge. The central position is convenient for intramuscular or subcutaneous injections.

We manufacture syringes with both Luer Slip (Luer) and Luer Lock attachment mechanisms. The most common are Luer syringes. In such products, the needle easily attaches to the tip of the syringe. This design is used in most areas of medical practice around the world. Luer Lock attachment is more durable and stable. It is used in situations where it is necessary to securely attach the needle through a rigid locking mechanism with utilization of threads. In order to secure the needle, it must be interlocked onto the tip. Luer Lock technology allows for a tight and leak-proof connection between the needle and a syringe with just a twist.

MANUFACTURING CAPACITY:

- 600+ Million Syringes Annually;
- 1 Billion Needles Annually;
- Production Lead-times – 30-45 days;



KEY CHARECTERISTICS AND SPECIFICATIONS:

Premier-Med sterile hypodermic syringes for single use with a single-use hypodermic needle are:

- Easy to use;
- Safe;
- Sterile, pyrogen-free;
- Cost effective;
- Reliable;
- Consistent in high-quality;
- Disposable;
- Three-piece design;
- Needle (stainless steel);
- Needle sharpening is trihedral lance;
- Syringe-needle connection: Luer/ Luer Lock;
- Clear calibration and volume markings;
- The piston rod has 4 stiffeners;
- The seal has 2 rings of contact with the inner surface of the syringe and is coated with silicone;
- Consumer packaging (BGS + polyamide film);
- Shelf life of five years.



DEAD SPACE (max, without needle)

Syringe Size, cc	1	2	3	4	5	8	10	15	20	50
Dead Space, cc	0,07	0,07	0,07	0,07	0,075	0,075	0,10	0,10	0,15	0,20

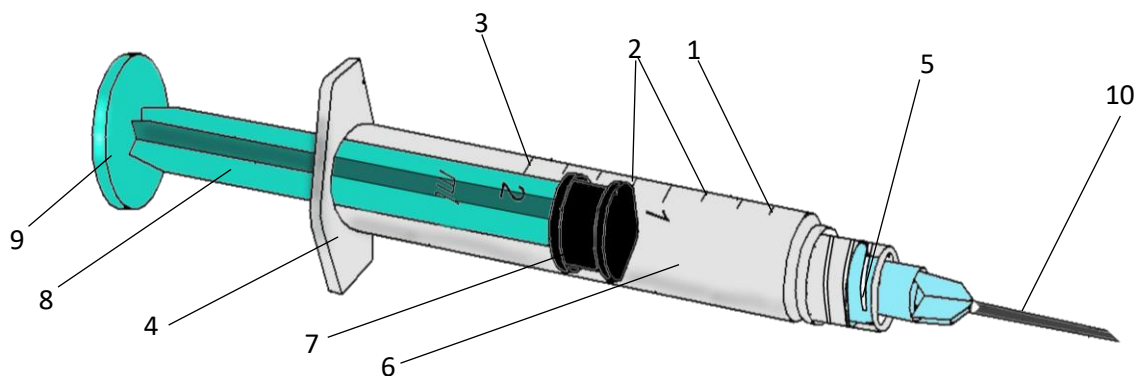


LUER SLIP SYRINGES

Volume	Cannula location	Scale division	Box
1cc	Centre	0,05 cc	1250
1cc Insulin 100 I.U.	Centre	0,02 cc	1250
1cc Tuberkulin	Centre	0,01 cc	1250
2cc	Centre	0,2 cc	1200
3cc	Centre	0,2 cc	1200
4cc	Centre	0,2 cc	750
5cc	Centre	0,5 (0,2) cc	750
8cc	Centre	0,5 (0,2) cc	500
10cc	Centre	1,0 (0,5;0,2) cc	500
15cc	Eccentric	1 cc	300
20cc	Eccentric	2 (1) cc	300
50cc	Eccentric	5 (2) cc	130
150cc	Catheter canula tip	5 (10) cc	72

LUER LOCK SYRINGES

Volume	Cannula location	Scale division	Box
2cc	Luer Lock	0,2 cc	1200
3cc	Luer Lock	0,2 cc	1200
4cc	Luer Lock	0,2 cc	750
5cc	Luer Lock	0,5 (0,2) cc	750
8cc	Luer Lock	0,5 (0,2) cc	500
10cc	Luer Lock	1,0 (0,5;0,2) cc	500
15cc	Luer Lock	1 cc	300
20cc	Luer Lock	2 (1) cc	300
50cc	Luer Lock	5 (2) cc	130



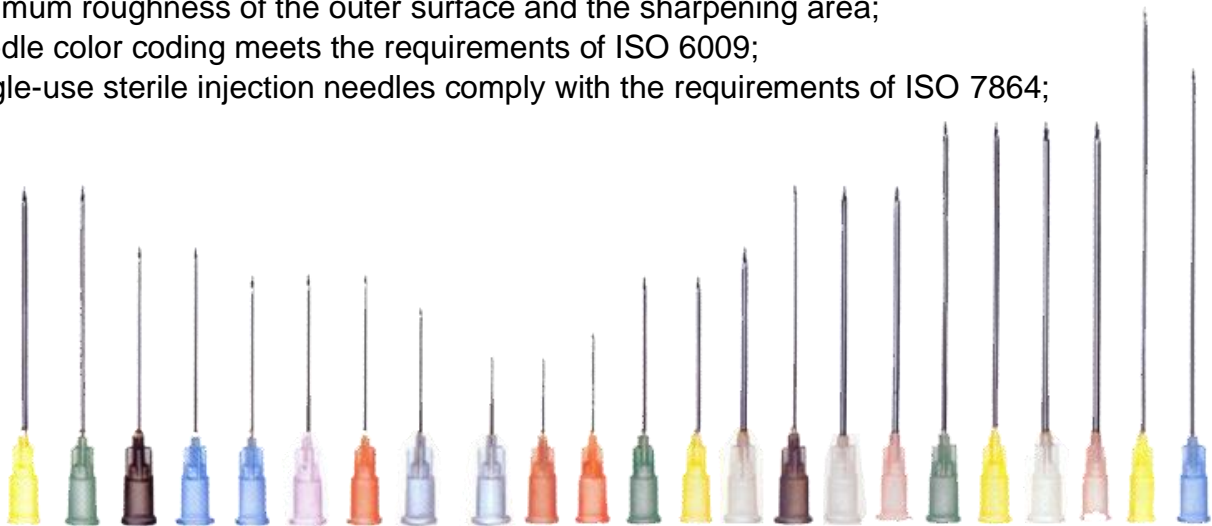
1 - zero calibration line; 2 - a-line calibration; 3 - nominal capacity calibration line; 4 – barrel top; 5 - needle attachment types; 6 - barrel; 7 - stopper seal; 8 - plunger; 9 – plunger flange; 10 - single-use injection needle.

HYPODERMIC NEEDLES:

Single-use sterile injection needles are designed for intramuscular, subcutaneous and intravenous administration of various drugs into the human body and have a connection mechanism of «Luer» or «Luer Lock» type.

KEY CHARECTERISTICS AND SPECIFICATIONS:

- The point of the needle is sharpened in 3 planes (laser three-level sharpening) which ensures that the piercing effect prevails over the cutting effect when piercing tissues. The angle of the needle sharpening has a cut at an angle of $11\pm 2^\circ$;
- Minimum puncture force;
- Longitudinal resistance to bending (flexibility);
- Strength, stability of Luer connections with the syringe;
- Minimum roughness of the outer surface and the sharpening area;
- Needle color coding meets the requirements of ISO 6009;
- Single-use sterile injection needles comply with the requirements of ISO 7864;



NEEDLE SIZE AND COLOR DESIGNATION:

Calibration size (G)	Nominal outer diameter of the needle, cc	Length <i>l</i> , mm	Color designation of the needle head
27G	0,40	12,0	light grey
26G	0,45	12,0	brown
23G	0,60	30,0	dark blue
22G	0,70	40,0	black
21G	0,80	40,0	dark green
19G	1,10	40,0	cream color
18G	1,20	40,0	pink
		50,0	

MATERIALS:

Component	Brand of materials	Materials
Syringe Barrel	21060-16	Polypropylene
	21080-60	
	PP H 250 GP/2	
	01130	Caplen (Polypropylene)
Syringe Barrel Paint	PF0011/95PE	Concentrate light stabilizer-ultraviolet filter «Basco»
Stopper, plunger rod	277-73	Polyethylene
	PE2HT22-12	
Plunger rod paint	SW902 (white dye), 3034 (turquoise dye)	Super Concentrate
Stopper seal	PME-90	PVC
For complete syringe set	PP, SUS304*	Single-use injection needles
For lubricating the stopper seal and inner barrel	PMS – 1000, PMS – 400, PMS – 100	Polymethylsiloxane liquid
Slip agent for the syringe inner barrel lubricating	LOXAMID OA SPEZIAL, LOXAMID OA Spez Perien, Krodamid OR CAS301-02-O	Oleic acid amide
Packaging	Plastilin	Polyamide film - polyolefin coextrusion
	BGS - 60	Medical products packaging paper
	GS - 60	
Scaling on the syringe barrel	TR 303/65 (black), TR 303/21 (red)	Pad printing ink
	Morlock M-733	
Application of variable data on packaging		Special ink for electric bubble-jet installation

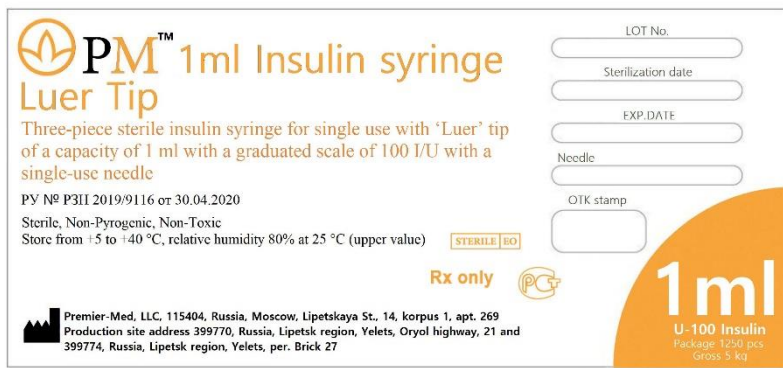


LABELING:

Example of labeling for 1 cc insulin syringe U-100:



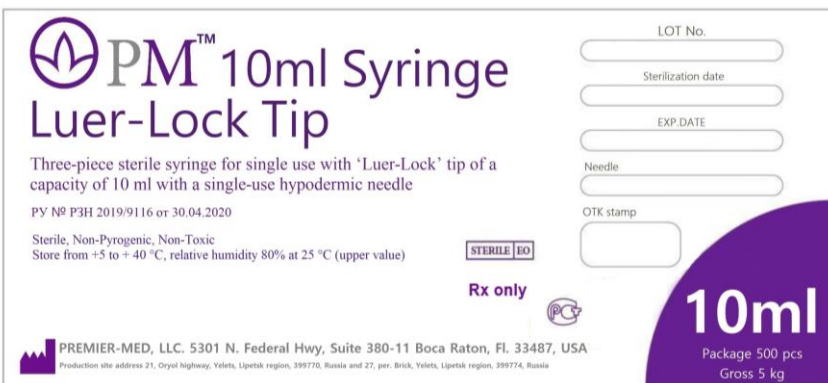
Example of a label on a box:



Example of labeling for a 10 cc "Luer Lock" syringe:

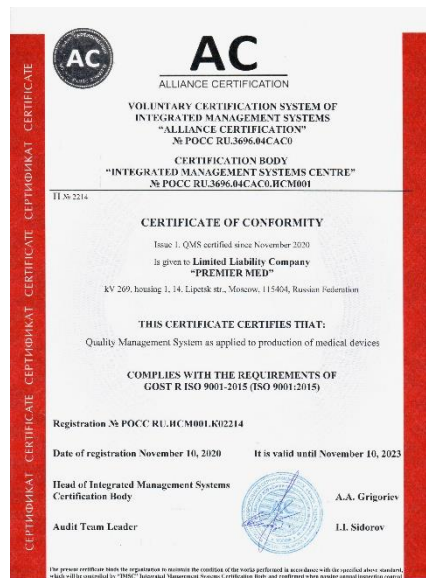


Example of a label on a box:



CERTIFICATIONS:

Manufacturer	ISO Certificate	Manufactured at
«PREMIER-MED, LLC.»	ISO 13485-2017(ISO 13485:2016)	«PREMIER-MED, LLC.» Russia, 399770, Lipetsk region, Elets, Orlovskoye road 21
«PREMIER-MED, LLC.»	ISO 9001-2015 (ISO 9001:2015)	«PREMIER-MED, LLC.» Russia, 399770, Lipetsk region, Elets, Orlovskoye road 21
«PREMIER-MED, LLC.»	ISO 14971-2011 (ISO 14971:2007)	«PREMIER-MED, LLC.» Russia, 399770, Lipetsk region, Elets, Orlovskoye road 21



OUR ADVANTAGES:



Use of modern and reliable equipment and high-quality raw materials!



Cost-effective pricing structure for the entire line of products!



Extensive product line, consistent quality, superior client support and on-time delivery!