

NEEDLE CLEANING KIT

Congratulations! You have purchased the finest quality Needle Cleaning Kit available today. We combine top quality materials with skilled workmanship, ensuring the highest possible performance level of every product we manufacture.

Syringes and needles manufactured by Hamilton Company are intended for scientific research and laboratory use only and are not intended for human *in vivo* use.

Hamilton Company's Needle Cleaning Kit contains a 70 mL bottle of Cleaning Solution Concentrate and tungsten cleaning wires in five sizes. Refer to the table below to determine the optimum size and part number of cleaning wires for your needles.

Needle Gauge	Cleaning Wire O.D.		P/N
	(inches)	(mm)	
22, 23 (and larger)	0.01207	0.307	18304
24–26	0.00815	0.207	18303
27	0.00659	0.167	18302
23s	0.00304	0.077	18306
25s, 22s, 28–30	0.00497	0.126	18301
26s, 31–33	0.00355	0.090	18300

Note: Needle cleaning wires are extremely small and require a pair of duck bill or flat nose pliers to feed the wire in and out of the needle. You may also need a small piece of emery paper to remove burrs and externally clean the needle.

Cleaning Needles

- For fixed needle syringes, remove the plunger from the syringe before cleaning the needle.
For all removable needle syringes, remove the needle from the syringe before cleaning the needle.
- Select the cleaning wire for your needle gauge using the table above. You may need to start with a smaller sized cleaning wire and work your way up to the final recommended size, depending on the type of blockage.
- Using a pair of scissors, cut the selected wire to approximately 1/2" longer than the total length of the needle. If a small burr or rough spot occurs when cutting the wire, remove it by stroking the end of the wire with a small piece of emery paper.
- With the pliers, gently feed the wire into the clogged needle. Hold the pliers no more than 1/16 of an inch from the end of the needle when pushing a cleaning wire into the needle. If the wire stops at the obstruction, do not force the wire, since the small wires bend easily. Obtain a smaller cleaning wire and try to work your way around or through the obstruction.
- Using short strokes, gently move the wire in and out against the obstruction. Avoid bending the wire. To help clean the needle, dip the cleaning wire into the cleaning concentrate after every few strokes. Repeat until the needle is clear of the obstruction.
- Reattach the removable needle to the syringe. Flush the syringe with cleaning concentrate and repeat the flushing with high-quality water until the syringe and needle are clean.

Note: Do not attempt to clean a clogged needle by forcing liquid through the syringe. Excessive pressure will split the glass barrel.

Note: Do not attempt to clean a clogged needle by heating it with an open flame. The heat may reduce the hardness of the stainless steel.

Replacement Parts	P/N
*Needle Cleaning Kit	76620
Cleaning Wires, 22, 23 gauge and larger (10 wires/pk)	18304
Cleaning Wires, 24–26 gauge (10 wires/pk)	18303
Cleaning Wires, 27 gauge (10 wires/pk)	18302
Cleaning Wires, 23s gauge (10 wires/pk)	18306
Cleaning Wires, 25s, 22s, 28–30 gauge (10 wires/pk)	18301
Cleaning Wires, 26s, 31–33 gauge (10 wires/pk)	18300
**Cleaning Concentrate (70 mL)	18310
**Cleaning Concentrate (500 mL)	18311

* The Needle Cleaning Kit contains 70 mL of Cleaning Solution Concentrate, and one tube of each of the five sizes of cleaning wires. There are ten cleaning wires per tube.

** The Cleaning Solution Concentrate is organic, biodegradable, and contains no phosphates. It is completely water soluble, requires no special handling and is non-flammable.

WARRANTY STATEMENT

Hamilton Company unconditionally guarantees its products to be free of defects in materials and workmanship. Any product which fails due to such a defect will be repaired or replaced at our discretion without cost, provided the device is returned on a Return Materials Authorization (RMA). It is the responsibility of the purchaser to determine the suitability of application and material compatibility of the products based on the published specifications of the products.

RETURN OF GOODS

Hamilton Company's return and repair policy is written to protect its employees from potentially hazardous materials (e.g. serum, radioactive materials, carcinogenic chemicals, etc.) or any substance that may cause them partial or permanent disability during the inspection or repair process. In returning a product, the customer acknowledges that the product is free from any hazardous materials. Furthermore, the customer assumes responsibility should the returned product be determined to be hazardous.

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