

BD disposable hypodermic needles

Technical data sheet

Gauge description	Outside diameter (inches)		Inside diameter (inches)	Outside diameter (mm)		Inside diameter (mm)
	min.	max.	min.	min.	max.	min.
16 G thin wall	0.063	0.067	0.051	1.600	1.690	1.283
18 G thin wall	0.047	0.051	0.036	1.200	1.300	0.910
21 G thin wall	0.032	0.033	0.022	0.800	0.830	0.547
23 G thin wall	0.024	0.027	0.015	0.600	0.673	0.370
25 G thin wall	0.020	0.021	0.012	0.500	0.530	0.292
27 G regular wall	0.016	0.017	0.007	0.400	0.420	0.184
30 G regular wall	0.012	0.013	0.005	0.298	0.320	0.133

Conversion factors: mm to in multiply by 0.03937; in to mm multiply by 25.4
Does not include the BD® Blunt Filter Portfolio (catalogue numbers 305236, 305211 and 30521104)

Material information

Needle hub color-coded, polypropylene
Needle shield polypropylene
Bonding agent epoxy, acrylic
Lubricant medical-grade silicone
Needle type 304 stainless steel
Method of sterilization radiation or EtO

Composition of type 304 stainless steel (wt. %)

Chromium 18–20
Nickel 8–11
Manganese 2.0
Silicon 1.0
Phosphorus 0.045
Sulfur 0.03
Carbon 0.07
Iron balance

BD needles are not formulated with the following compounds:

DEHP, BPA¹, natural rubber latex, BSE/TSE²

Standards information

BD® Eclipse™, BD® Microlance™, BD® PrecisionGlide™, BD® SafetyGlide™ Needles

ISO 7864: 2016 sterile hypodermic needles for single use*

*BD claims an exception to this ISO. BD is in the process of converting our products to be compliant with ISO 80369-7.

ISO 9626: 2016 stainless steel tubing for manufacture of medical devices

ISO 6009: 2016 Colour coding for identification†

†16 G and 25 G PrecisionGlide™ Needles in the U.S. are not compliant to ISO 6009.

Unit packaging

BD conventional needles use a paper-based top web and co-extruded film bottom web.

BD sharps safety needles use a nylon film top web and a polyester bottom web.

Packaging information for conventional needles

	1 inch or less	1 ¼–1 ½ inch
Shelf box dimensions	4.5" L x 3.375" W x 3.25" H	4.5" L x 3.375" W x 3.75" H
Case dimensions	17.813" L x 7.125" W x 5.063" H	17.813" L x 8.125" W x 5.063" H
Approximate weight	3.7 lb.	4.5 lb.
Cube	0.37 cu. ft.	0.42 cu. ft.

For reference only.

¹ BPA is a building block in a raw material of the adhesive. The quantity of BPA in the final adhesive will be below a de minimis concentration and have no demonstrable clinically significant exposure or toxicity.

² The raw materials used in the manufacture of these devices do not contain any animal tissue but may contain very small amounts of chemicals that are derived from animal-derived raw materials. These products are manufactured using polymer resins which may contain very small amounts of stearic acid and related substances derived from tallow derivatives. Our resin suppliers have confirmed that these chemicals have been produced with multiple cycles of conditions at least as rigorous as those specified in Annex C.5 of EN ISO 22442-1:2020 and Section 6 of EMA ^{419%}, Rev. 3. Therefore, these raw materials meet or exceed the requirements of EN ISO 22442-1 and EMA ^{419%}, Rev. 3. Based on this information, these products are considered not to present any risk with respect to TSE/BSE or other animal-borne diseases.

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