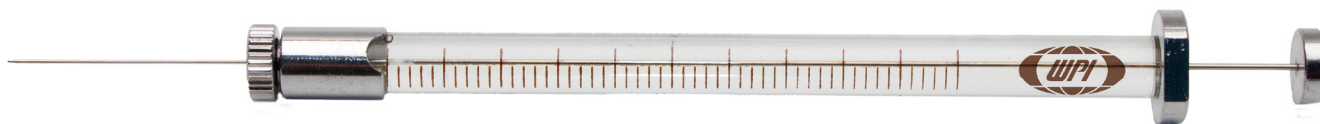




Intravitreal Injections

Why the NanoFil™ Microsyringe is Ideal



WPI's NanoFil™ Gas-Tight syringe offers the ultimate precision for sensitive tissue, particularly for ophthalmic-specific applications. The injection system boasts zero dead volume in the terminal between the interchangeable needle and plunger— creating a truly gas-tight system once primed. NanoFil™ needles are offered in blunt or beveled styles down to 36G, the smallest commercially available gauge on the market.*

Benefits: Intravitreal Injections

WPI's beveled NanoFil™ needles offer a tri-bevel tip, which enhances ease of entry into tissue while reducing mechanical damage. Unlike a single-bevel needle which can resist entry, the tri-bevel offers superior sharpness—critical for working with tissues sensitive to tearing and general mechanical damage.



Application Kits

When holding a syringe for injections becomes cumbersome, WPI offers two handheld kits: blunt tipped – RPE (retinal pigment epithelium) and beveled tipped – IO (intraocular) kits. These kits easily mate to the NanoFil™ for a lightweight solution for handheld manipulation. Paired with WPI's UMP3 syringe pump, low-volume injections can easily be controlled. Likewise, if glass tips are preferred, WPI's NANOLITER2020 can be considered as an alternative.



References

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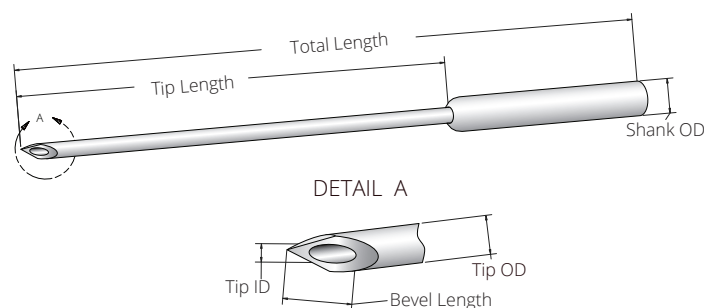
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NANOFIL™ NEEDLE COMPARISON TABLE



Tip Order Number	Tip O.D.	Tip I.D.	Tip Length	Total Length	Shank O.D.	Bevel Length	Tip Material
NF33BV	210 µm	115 µm	10 mm	40 mm	460 µm	≈348 µm	Stainless Steel
NF34BV	185 µm	85 µm	5 mm	35 mm	460 µm	≈290 µm	Stainless Steel
NF35BV	135 µm	55 µm	5 mm	35 mm	460 µm	≈204 µm	Stainless Steel
NF36BV	120 µm	35 µm	3 mm	33 mm	460 µm	≈156 µm	Stainless Steel
NFQ34-5	160 µm	100 µm	55 mm	75 mm	460 µm	n/a	Quartz
NF33BL	210 µm	115 µm	10 mm	40 mm	460 µm	0	Stainless Steel
NF34BL	185 µm	85 µm	5 mm	35 mm	460 µm	0	Stainless Steel
NF35BL	135 µm	55 µm	5 mm	35 mm	460 µm	0	Stainless Steel
NF36BL	120 µm	35 µm	3 mm	33 mm	460 µm	0	Stainless Steel
Silflex		100 µm		35 cm			
NF26BV	460 µm	140 µm		40 mm	460 µm		Stainless Steel

NANOFIL™ SYRINGE SPECIFICATION TABLE

Syringe Order Code	Volume	Syringe Type	Syringe Body	Autoclavable/ Gas Sterilizable	Plunger Stroke Length	Plunger Cap Dimensions	Syringe Barrel I.D./O.D.*	Qty	MICRO4/ MICRO2T Syringe Type Selection
NANOFIL	10µL	Gas-tight	Borosilicate glass, Stainless Steel, PTFE	Yes ✓ 10°C/50°F to 80°C/176°F, 1000psig max pressure	60mm	O.D.*: 7.90mm (0.311in)	0.46mm (0.018in)/ 6.40mm (0.252in)	1 EA	L (MICRO4)
NANOFIL-100	100µL					Depth: 2.80mm (0.110in)	1.46mm (0.057in)/ 7.75mm (0.305in)	1 EA	5 (MICRO2T)

*I.D. = Inner diameter, O.D. = Outer diameter