

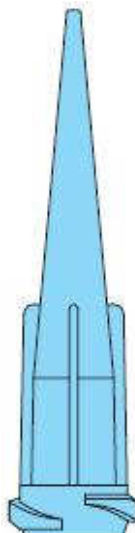


## Precision Dispense Tips

### Tapered tips

gauge	standard	colour	opaque rigid	colour
14	TTN14	Olive	TTN14E	Salmon
16	TTN16	Grey	TTN16E	Grey
18	TTN18	Green	TTN18E	Green
20	TTN20	Pink	TTN20E	Pink
22	TTN22	Blue	TTN22E	Blue
25	TTN25	Red	TTN25E	Red
27	TTN27	Clear	n/a	n/a

Use with gel cyanoacrylates, UV-cure adhesives, sealants, and particle filled materials or any medium to high viscosity fluid. Moulded of polyethylene with UV-light block additive.



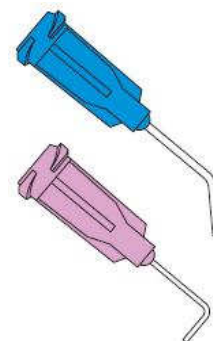
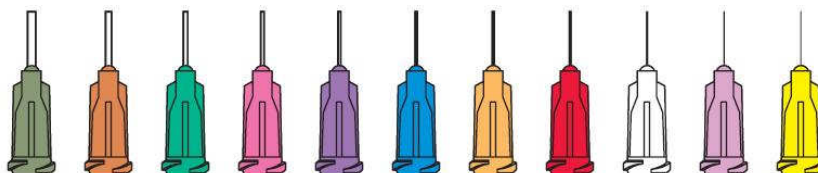
All tips supplied in packs of 50 unless where specified.

Gauge	Color	I.D. (inches)	I.D. (mm)
14	Olive	0.063	1.600
15	Amber	0.054	1.371
18	Green	0.033	0.838
20	Pink	0.024	0.610
21	Purple	0.020	0.508
22	Blue	0.016	0.406
23	Orange	0.013	0.330
25	Red	0.010	0.254
27	Clear	0.008	0.203
30	Lavender	0.006	0.152
32	Yellow	0.004	0.102

### Precision stainless steel tips

gauge	0.25"	0.5"	1.0"	1.5"	45°	90°
14	TE714025PK	TE714050PK	TE714100PK	TE714150PK	TE714050-B45PK	TE714050-B45PK
15	TE715025PK	TE715050PK	TE715100PK	TE715150PK	TE715050-B45PK	TE714050-B45PK
18	TE718025PK	TE718050PK	TE718100PK	TE718150PK	TE718050-B45PK	TE714050-B45PK
20	TE720025PK	TE720050PK	TE720100PK	TE720150PK	TE720050-B45PK	TE720050-B45PK
21	TE721025PK	TE720050PK	TE721100PK	TE721150PK	TE721050-B45PK	TE721050-B45PK
22	TE722025PK	TE722050PK	TE722100PK	TE722150PK	TE722050-B45PK	TE722050-B45PK
23	TE723025PK	TE723050PK	TE723100PK	TE723150PK	TE723050-B45PK	TE723050-B45PK
25	TE725025PK	TE725050PK	TE725100PK	TE725150PK	TE725050-B45PK	TE725050-B45PK
27	TE727025PK	TE727050PK	TE727100PK	n/a	TE727050-B45PK	TE727050-B45PK
30	TE730025PK	TE730050PK	n/a	n/a	TE730050-B45PK	TE730050-B45PK
32	TE732025PK	n/a	n/a	n/a	n/a	n/a

Burr-free, polished, passivated stainless steel dispense tips with polypropylene double helix locking hubs for a secure fit to barrel reservoirs. Smaller gauges ideal for microdots. Standard all-around precision dispense tips. 0.25", 0.5", 1", 1.5", 45° and 90° bend tips: Easy access into hard-to-reach areas. High quality dispensing tips for most liquids and adhesives.



### TSP plastic flexible tips

gauge	1.5" long	colour
15	TSP15	Grey
16	TSP16	Brown
18	TSP18	Pink
20	TSP20	Yellow
22	TSP22	Black
25	TSP25	Red



Flexible tips allow access to hard to reach areas and allow you to cut and customise the length. Ideal for CA applications. Both hub and tube are made from polypropylene. 1.5" length.

### Brush tips

gauge	soft bristle	stiff bristle
16	BT16SOFT	BT16STIFF
18	BT18SOFT	BT18STIFF
22	BT22SOFT	BT22STIFF

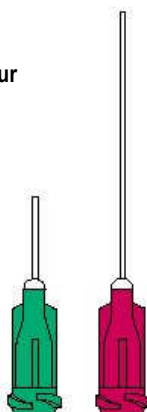


Use these double helix brush tips for spread applications such as glues and other materials. Soft brush is made of red sable, stiff of nylon. In packs of 12.

### Polypro flexible tips

gauge	0.5" long	1.5" long	hub colour
15	3115PPS-B	3115PP-B	Amber
18	3118PPS-B	3118PP-B	Green
20	3120PPS-B	3120PP-B	Pink
25	T3125PPS-B	3125PP-B	Red

Flexible tips allow access to hard to reach areas and allow you to cut and customise the length. Ideal for CA applications. Both hub and tube are made from polypropylene. 0.5" or 1.5" lengths.



### Aluminium precision tips

gauge	0.5" long	1.0" long	2.0" long	colour
14	TS14-1/2MPK	TS14-1MPK	TS14-2MPK	Silver
15	TS15-1/2MPK	TS15-1MPK	n/a	Silver
16	n/a	TS16-1MPK	n/a	Silver

Aluminium blunt end needle tips for use with most fluids and especially good for aggressive chemicals and most solvent based fluids. All tips are supplied in sealed packs of 50. Standard luer lock hub for secure attachment to syringe barrel or metering valve. Precision aluminium hubs with burr-free stainless steel shafts.





All tips supplied in packs of 50 unless specified.

## Precision Dispense Tips

### Teflon flexible tips

gauge	0.5" long	2" long	hub colour
14	TF14	TF14-2	Olive
16	TF16	TF16-2	Purple
18	TF18	TF18-2	Pink
20	TF20	TF20-2	Yellow
22	TF22	TF22-2	Black
23	TF23	n/a	Blue
24	TF24	n/a	Red
30	TF30	n/a	Lavender

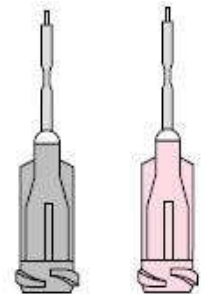


Flexible Teflon tips allow access to hard to reach areas and allow you to cut and customise the length. Ideal for CA applications. Polypropylene colour coded hub to clear Teflon flexible tube. 2" or 0.5" lengths.

### Teflon-lined rigid tips

gauge	0.5" long	1.0" long
21	5121TLCS	5121TLC
25	5125TLCS	5125TLC

Teflon lined dispensing tips will not clog when used with cyanoacrylate adhesives. Rigid stainless steel shaft with crimped Teflon inner lining. Supplied in packs of 50.



### SE budget precision stainless steel tips

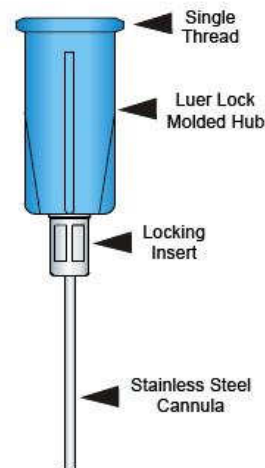
gauge	00.5"	1.0"	hub colour
14	SE414050PK	SE414100PK	Olive
15	SE415050PK	SE415100PK	Amber
16	SE416050PK	SE416100PK	Grey
18	SE418050PK	SE418100PK	Green
20	SE420050PK	SE420100PK	Pink
21	SE420050PK	SE421100PK	Purple
22	SE422050PK	SE422100PK	Blue
23	SE423050PK	SE423100PK	Orange
25	SE425050PK	SE425100PK	Red
27	SE427050PK	n/a	White



The SE needle series consist of a stainless-steel shaft with a luer lock polypropylene hub. This line of dispensing needles is burr-free, and electro-polished shaft for unobstructed and consistent material flow. In addition they are silicone and chloride free. Designed to dispense most viscosity fluids and adhesives. In 0.5" or 1" lengths.

### Crimped precision stainless steel tips

gauge	0.25"	0.5"	1.0"	5/16"	hub colour
18	n/a	TS18-1/2	TS18-1	n/a	Pink
19	n/a	TS19-1/2	TS19-1	n/a	Brown
20	n/a	TS20-1/2	TS21-1	n/a	Yellow
21	n/a	TS21-1/2	TS21-1	n/a	Green
22	n/a	TS22-1/2	TS22-1	n/a	Black
23	n/a	TS23-1/2	TS23-1	n/a	Blue
26	n/a	TS26-1/2	TS26-1	n/a	Beige
27	TS27-1/4	n/a	n/a	TS27-5/16	Grey
30	n/a	TS30-1/2	n/a	TS30-5/16	Lavender



The TS Series dispensing tips offer a variety of dispensing performance and flexibility options. Stainless steel tubing is cut to precise lengths and ground to be burr-free. Cut tubing is crimped into aluminium locking insert, then moulded into polyethylene hubs.

Moulded hub colours correspond to gauge size. All TS Series tips secure to syringe barrels and correspond to the luer lock specification.

### Assorted tip kit



part	description
TN00DKIT	Tip kit

This kit contains a selection of our most popular precision, precision bent and TTN needles to let you test different types to find the ones that fit your applications. Kits contain 145 assorted tips.

gauge	part no	colour	Length
14	TS14SS-1/2	Silver	1/2"
15	TS15SS-1/2	Silver	1/2"
16	TS16SS-1/2	Silver	1/2"
17	TS17SS-1/2	Silver	1/2"
18	TS18SS-1/2	Silver	1/2"
20	TS20SS-1/2	Silver	1/2"
21	TS21SS-1/2	Silver	1/2"
22	TS22SS-1/2	Silver	1/2"
23	TS23SS-1/2	Silver	1/2"
25	TS25SS-1/2	Silver	1/2"
27	TS27SS-1/2	Silver	1/2"
30	TS30SS-1/2	Silver	1/2"



Precision stainless steel needles ideal for use with automated dispensers. 10 per box. Also available in customer lengths and larger bore sizes on request