



Accessories For 4 mm Drop-in(DI) Spinners

➤ Thick wall rotors and Torlon caps are provided for **fastest spinning**. Teflon spacers are provided for highest homogeneity and rf field strength. DI4 Thin wall rotors and caps are available for maximum signal to noise. The maximum speed of thin wall rotors is about 50% the maximum speed of thick wall rotors.

4 mm DI4		Front DI Turbine	Rear DI Tip Cap
Rotor Length =24.95 mm	Sample Volume DI4:		
Low density* Spinning max	Thick Wall = 122 µl , with Spacers = 60 µl		
Thick Wall rotor – Max. 18 kHz	Thin Wall = 158 µl , with Spacers = 77 µl		
Please note: Although the front turbine and rear tip cap are sold separately, a pair consisting of a front turbine and a rear tip cap are needed for spinning.			
DI4 #	Price	Description	Maximum SpinSpeed*
Thick Wall Rotors and Caps			4 mm
45127	\$600	DI 4mm Thick Wall Rotor – Silicon Nitride	18 kHz
45127-P	\$600	DI 4mm Thick Wall Rotor – Silicon Nitride - Painted**	18 kHz
45129	70	DI 4mm Front Turbine Cap for Thick Wall – GFT (glass filled torlon)	18 kHz
46136	70	DI 4mm Rear Tip Cap for Thick Wall – GFT (glass filled torlon)	18 kHz
46142	70	DI 4mm Front Turbine Cap for Thick Wall – Torlon	18 kHz
46140	70	DI 4mm Rear Tip Cap for Thick Wall – Torlon	18 kHz
46142-A	70	DI 4mm Front Turbine Cap for Thick Wall – Aurum	15 kHz
46140-A	70	DI 4mm Rear Tip Cap for Thick Wall – Aurum	15 kHz
45130	70	DI 4mm Front Turbine Cap for Thick Wall – Kel-F	9 kHz
46137	70	DI 4mm Rear Tip Cap for Thick Wall – Kel-F	9 kHz
45137	25	DI 4mm Spacer for Thick Wall Rotors – Teflon	Restricts/centers the sample to within the coil region). Two are required.
46206	25	D 4mm Spacer for Thick Wall Rotors – Kel-F	
DI4 #	Price	DI4 Thin Wall Rotors and Caps	Maximum Spin Speed
03136	\$600	DI 4mm Thin Wall Rotor – Silicon Nitride	12 kHz
03136-P	\$600	DI 4mm Thin Wall Rotor – Silicon Nitride - Painted**	12 kHz
45131	70	DI 4mm Front Turbine Cap for Thin Wall – GFT (glass filled torlon)	12 kHz
46138	70	DI 4mm Rear Tip Cap for Thin Wall – GFT (glass filled torlon)	12 kHz
46141	70	DI 4mm Front Turbine Cap for Thin Wall – Torlon	12 kHz
46169	70	DI 4mm Rear Tip Cap for Thin Wall – Torlon	12 kHz
46141-A	70	DI 4mm Front Turbine Cap for Thin Wall – Aurum	12 kHz
46169-A	70	DI 4mm Rear Tip Cap for Thin Wall – Aurum	12 kHz
45132	70	DI 4mm Front Turbine Cap for Thin Wall – Kel-F	9 kHz
46139	70	DI 4mm Rear Tip Cap for Thin Wall – Kel-F	9 kHz
45138	25	DI 4mm Spacer for Thin Wall Rotors – Teflon	Restricts/centers the sample to within the coil region). Two are required.
46207	25	DI 4mm Spacer for Thin Wall Rotors – Kel-F	
DI4 #	Price	Cap Pullers and Accessories	
01003	\$70	DI4 Turbine Cap Puller and Spacer Removal Tool - Now used for both turbine caps and spacers - since 10/2012	
96188	110	Rotor Holder and Plungers – tools for tip cap and rear spacer removal	
99683	160	Sample Packing Set For Thick Wall DI 4 Rrotors	
99682	160	Sample Packing Set For Thin Wall DI 4 Rrotors	
96182	210	DI4 Turbine Cap Puller for Turbine Caps for original DI4 turbine caps	

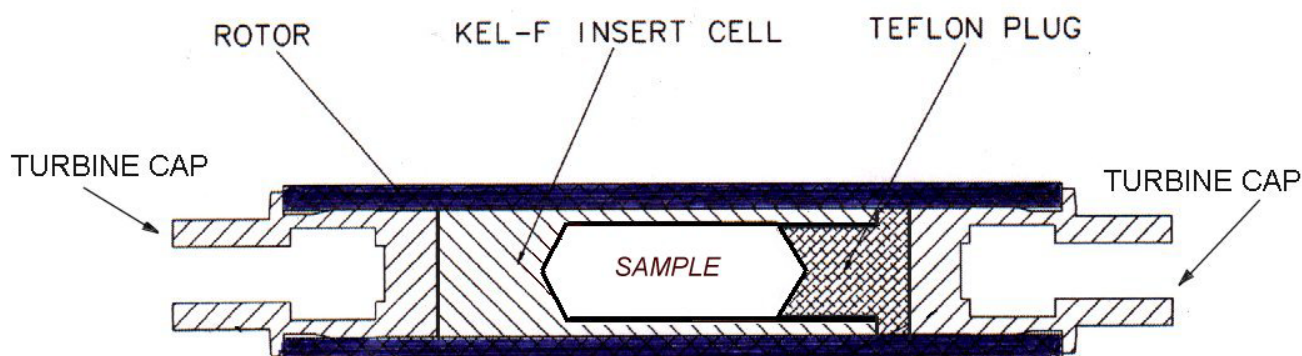
* Please refer to the Catalog APPENDIX or the website Materials Section for the **speeds/density spin limits.****
For DI probes or Bench Spinners with optical detection
 (US\$ – Foreign prices higher, plus taxes.)

DI and XC

Sealing Cells for Liquids and Semi-Solids

All sealing cells are for use inside XC and DI thin-walled ceramic rotors. The plastic cells are available in Kel-F with teflon plugs for proton NMR or in ultem with polyvinyl-chloride (PVC) plugs for fluorine NMR.

All cells are suitable for long-term sample storage without loss. They may be used with all common solvents, including acetone, alcohols, benzene, DMSO, ethers, methylene chloride, strong bases, and most strong acids – as long as the sample density does not exceed the density of the plug (2.2 g/cm³ for teflon, 1.4 g/cm³ for PVC).



DI and XC Kel-F (or Ultem) Insert Cell With Plug - for Liquids or Semi-solid Samples

Note: DI rotors use a front turbine and a rear tip cap, not the rear turbine as shown in the sealing cell picture above.

4 mm DI4 Sealing Cells. (For thin wall rotors)

Kel-F cells with teflon plugs or Ultem cells with PVC plugs. Use with thin-walled rotors and caps.

	Kel-F Part #	Ultem Part #	Sample Volume	Price
DI4	95142	95143	50 µL	\$35
DI4	95141	95139	20 µL	35

5 mm XC5 Sealing Cells. (For thin wall rotors)

Kel-F cells with teflon plugs or Ultem cells with PVC plugs. Use with thin-walled rotors and short XC caps.

	Kel-F Part #	Ultem Part #	Sample Volume	Price
XC5	99801	99793	75 µL	\$35
XC5	99799	99792	50 µL	35
XC5	99797	99789	20 µL	35

4 mm XC4 Sealing Cells. (For thin wall rotors)

Kel-F cells with teflon plugs or Ultem cells with PVC plugs. Use with thin-walled rotors and short XC caps.

	Kel-F Part #	Ultem Part #	Sample Volume	Price
XC4	99694	99691	40 µL	\$35
XC4	99693	99689	20 µL	35
XC4	99692	99688	10 µL	35
XC4	99802	99796	4 µL	35

7 mm XC7 Sealing Cells. (For thin wall rotors)

Kel-F cells with teflon plugs or Ultem cells with PVC plugs. Use with thin-walled rotors and short XC caps.

	Kel-F Part #	Ultem Part #	Sample Volume	Price
XC7	99629	99633	225 µL	\$35
XC7	99628	99632	100 µL	35
XC7	99627	99631	50 µL	35

(US\$ –Foreign prices higher, plus taxes.)