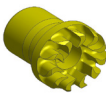



Accessories For Drop-in(DI) Spinners

➤ Thick wall rotors and Torlon caps are provided for **fastest spinning** and ease in packing. 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.

<p style="text-align: center; color: green;">3 mm DI3</p> <p style="background-color: black; color: white; padding: 2px;">Rotor Length =17.8 mm</p> <p>Low density* Spinning max Thick Wall Rotor – Max. 28 kHz</p> <p>Sample Volume DI3: Without spacers = 36.5 μl With spacers = 13.6 μl</p>	<p>Front DI Turbine</p> 	<p>Rear DI Tip Cap</p> 	<p style="text-align: center; color: green;">4 mm DI4</p> <p style="background-color: black; color: white; padding: 2px;">Rotor Length =24.95 mm</p> <p>Low density* Spinning max Thick Wall rotor – Max. 18 kHz</p> <p>Sample Volume DI4: Thick Wall = 122 μl, with Spacers = 60 μl Thin Wall = 158 μl, with Spacers = 77 μl</p>		
<p>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.</p>					
DI3 Part #	DI4 Part #	Price	Description	Maximum Spin Speed (kHz)	
Thick Wall Rotors and Caps				3 mm	4 mm
46082	45127	\$600	DI thick wall rotor – Silicon Nitride	28	18
	45127-P	\$600	DI thick wall rotor – Silicon Nitride - Painted <i>For DI probes or Bench Spinners with optical detection</i>	28	18
46252	-----	70	DI front turbine cap for thick wall – Torlon (use with <i>GFT</i> Tip)	28	-----
46083	45129	70	DI front turbine cap for thick wall – <i>GFT</i> (glass filled torlon)	26	18
46084	46136	70	DI rear tip cap for thick wall – <i>GFT</i> (glass filled torlon)	28	18
46077	46142	70	DI front turbine cap for thick wall – Aurum	18	15
46076	46140	70	DI rear tip cap for thick wall – Aurum	18	15
46075	45130	70	DI front turbine cap for thick wall – Kel-F	11	9
46074	46137	70	DI rear tip cap for thick wall – Kel-F	11	9
46179	45137	25	DI Teflon spacer for thick wall rotors	Restricts/centers the sample to within the coil region). Two are required.	
46168	46206	25	DI Kel-F spacer for thick wall rotors		
	DI4 #	Price	DI4 Thin Wall Rotors and Caps	Maximum Spin Speed (kHz) 4mm	
	03136	\$600	DI4 thin wall rotor – Silicon Nitride	12	
	45131	70	DI4 front turbine cap for thin wall – <i>GFT</i> (glass filled torlon)	12	
	46138	70	DI4 rear tip cap for thin wall – <i>GFT</i> (glass filled torlon)	12	
	46141	70	DI4 front turbine cap for thin wall – Aurum	12	
	46169	70	DI4 rear tip cap for thin wall – Aurum	12	
	45132	70	DI4 front turbine cap for thin wall – Kel-F	9	
	46139	70	DI4 rear tip cap for thin wall – Kel-F	9	
	45138	25	DI Teflon spacer for thin wall rotors	Restricts/centers the sample to within the coil region). Two are required.	
	46207	25	DI Kel-F spacer for thin wall rotors		
DI3 #	DI4 #	Price	Cap Pullers and Accessories		
06027	-----	\$ 70	DI3 Turbine cap Puller and Spacer removal tool		
-----	01003	\$70	DI4 turbine cap puller and spacer removal tool - <i>Now used for both turbine caps and spacers - since 10/2012</i>		
96195	96188	110	Rotor holder and plungers – tools for tip cap and rear spacer removal		
96501	99683	160	Sample packing set for thick wall DI rotors		
-----	99682	160	Sample packing set for thin wall DI4 rotors		
-----	96182	210	DI4 Turbine cap puller for turbine caps <i>for original DI4 turbine caps</i>		

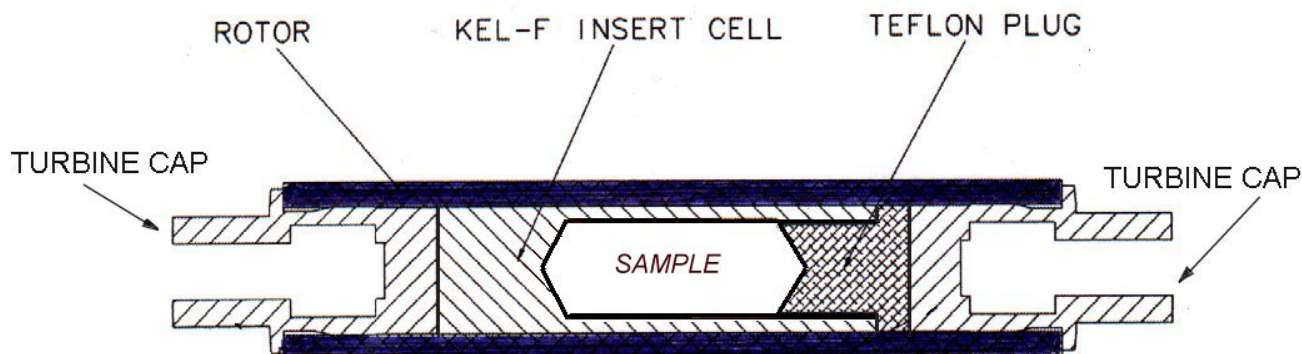
* Please refer to the APPENDIX for the **speeds/density spin** (US\$ – Foreign prices higher, plus taxes.)

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.

	<u>Kel-F Part #</u>	<u>Ultem Part #</u>	<u>Sample Volume</u>	<u>Price</u>
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.

	<u>Kel-F Part #</u>	<u>Ultem Part #</u>	<u>Sample Volume</u>	<u>Price</u>
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.

	<u>Kel-F Part #</u>	<u>Ultem Part #</u>	<u>Sample Volume</u>	<u>Price</u>
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.

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

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