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### OSR THREADED DELRIN TUBES

Tube Size	Volume ml Nom/Fill	Assembly PN (1)	PN Tube (4)	PN Cap Assy (2)	PN O-ring (Viton)	Max Speed KRPM Fill/Part Fill(3) 4 deg C	Max Speed KRPM Fill/Part Fill(3) 25 deg C	For Beckman Rotors	For Sorvall/Kontron Rotors
7/16x2-3/8" (11x60mm)	2 2/21	4522	4532	4389	4390	55/50	50/45	---	TFT80.4
1/2x2-1/2" (13x64mm)	2 1/6	4523	4533	4279	4280	45/45	45/40	50.4Ti,50.3Ti 40.3,40.2	TFT45.6
5/8x3" (16x76mm)	1 1/2	4524	4534	4283	4284	50/40	40/40	see Note (5)	T-1270 (7), A-1256,TFT80.13
1x3-1/2" (25x89mm)	1 27/50	4525	4535	4287	4288	50/35	50/35	see Note (6)	TFT:70.38,65.38,55 .38,50.38
1-1/2x4" (38x102mm)	1 22/25	4516	4517	4291	4292	40/35	40/35	45Ti,35	TFT45.94

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- (1) Assembly consists of one Delrin tube, aluminum cap and Viton® o-ring  
 (2) Assembly consists of one aluminum cap and Viton o-ring.  
 (3) Tubes must be centrifuged with caps and tubes must be full to use at any speed.  
 (4) Delrin tubes must *not* be autoclaved.  
 (5) Used in the following rotors: 90Ti, 80Ti, 75Ti, 70.1Ti, 65, 50Ti, 50 & 40.  
 (6) Used in the following rotors: 70Ti, 60Ti, 55.2Ti, 50.2Ti, 42.1. Maximum speed is 40KRPM in the Beckman 50.2Ti rotor.  
 (7) If using T-1270, need special OD cap. Contact sales.

### OSR TUBES FOR USE IN SW ROTORS

Rev 2

Tube Size	Volume ml Nom/Fill	PN Tube	Tube Material	Max Speed KRPM (3) 4 deg C	For Beckman Rotors	For Sorvall/Kontron Rotors
7/16x2-3/8" (11x60mm)	4.4/2.1	4519	Delrin(1)	45	SW60Ti	TH-660
		4528	Kynar(2)			
1/2x2" (13x51mm)	6.5/2.4	4520	Delrin	45	SW55Ti	AH-650
		4529	Kynar			
9/16x3-1/2" (14x89mm)	12/8.3	4518	Delrin	30	SW41Ti	TH-641
		4530	Kynar			
9/16x3-3/4" (14x95mm)	12/8.3	4536	Delrin	30	SW40Ti	---
		4537	Kynar			
1x3-1/2" (25x89mm)	38.5/25	4521	Delrin	23	SW28 SW32	AH629/36 Surespin 630/36
		4531	Kynar			

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- (1) Delrin is a registered trademark of E.I. DuPont de Nemours & Co. Delrin tubes must not be autoclaved.  
 (2) Kynar is a registered trademark of Elf Atochem North America, Inc. Kynar tubes must not be autoclaved.  
 (3) Tubes must only be used filled to within 2-3mm (1/8") of top (no partial fill) and used at 4 deg. C.

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### OSR POLYPROPYLENE BOTTLES

Bottle Size (material)	Nominal Volume ml	Bottle Assy PN (1)	Bottle Only PN	Cap only PN	Plug Only PN (Delrin)	O-ring Only PN (Viton)	Maximum Speed KRPM (2)	For Beckman Rotor	For Thermo-Sorvall Rotor
5/8x3" (5a) 16x76mm (polypropylene)	10.4	4479 (alum cap)	5072	4418 (alum)	4500	4493	50	See (3)	T-1270,A-1256 T-865.1,T-875
5/8x3" (5a) 16x76mm (polypropylene)	10.4	4489 (Delrin cap)	5072	4499 (Delrin)	4500	4493	50	See (3)	T-1270,A-1256 T-865.1,T-875
5/8x3" (5b) 16x80mm (polypropylene)	9.1	5104 (alum cap)	4426 4425(7)	4424 (alum)	5081	4493	50	---	T-1270,A-1256 T-865.1,T-875
5/8x3" (5b) 16x80mm (polypropylene)	9.1	5105 (Delrin cap)	4426 4425(7)	5080 (Delrin)	5081	4493	50	---	T-1270,A-1256 T-865.1,T-875
1x3-1/2" (6a) 25x89mm (polypropylene)	25	5073 (alum cap)	5074	4419 (alum)	4500	5077	45	See (4)	---
1x3-1/2" (6a) 25x89mm (polypropylene)	25	5102 (Delrin cap)	5074	5103 (Delrin)	4500	5077	30	See (4)	---
1x3-1/2" (6b) 25x89mm (polypropylene)	23	5101 (alum cap)	5075	4501 (alum)	4500	5077	45	----	T-865 T-1250
1x3-1/2" (6b) 25x89mm (polypropylene)	23	5100 (Delrin cap)	5075	5076 (Delrin)	4500	5077	30	----	T-865 T-1250

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(1) Assembly consists of one bottle, cap, plug and o-ring.

(2) Bottle must be used at full volume only regardless of the speed.

(3) Used in the following rotors: 90Ti, 80Ti, 75Ti, 70.1Ti, 65, 50Ti, 50 & 40.

(4) May be used in the following rotors: Types 70Ti, 60Ti, 55.2Ti, 50.2Ti, 45Ti, 42.1.

(5a) Beckman-type bottle. (5b) Sorvall-type bottle. Bottle/cap threads are different, parts are not interchangeable, but Beckman-type complete bottle assembly can be used in Sorvall rotors.

(6a) Beckman-type bottle. (6b) Sorvall-type bottle. Bottle/cap threads are the same but bottle lengths and cap/hole diameters are different. Parts are not interchangeable. Beckman-type to be used in Beckman rotors and Sorvall-type to be used in Sorvall rotors.

(7) PN 4425 is a box of 25 of PN 4426.