

Standard Liquid Phase NMR Consumables

Precision NMR Tubes

To maximize SNR, Precision NMR Tubes have minimal paramagnetic impurities that would impact shimming. Tight I.D. and O.D. tolerances as small as 0.0065mm accommodate Wilmad inserts.

- Manufactured in a state-of-the-art ISO 9001:2015 USA facility using a unique precision shrinking and grinding process to shape the inner surface with maximized filling factor
- Inner surface is resistant to strong acid and base at ambient temperature
- Can be operated safely at temperatures up to 230° C, and within a temperature step of 120° C
- Rated as hydrolytic class 1
- Ideal for experiments requiring critical shimming quality (high/ultrahigh field, multi-dimensional, multi-nuclei, DNP experiments and studies involving biological samples)
- Made from borosilicate glass that meets the requirement of Type 1 Class A glass from ASTM E438
- 100% inspection with multiple NIST traceable gauges and optical surface defect checks
- Includes disposable cap



Note: Caps are not recommended for use with samples dissolved in chloroform-d or acetone-d₆.

Wilmad 3mm O.D. Thin Walled Precision NMR Tubes

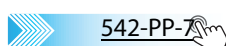
Catalog No.	MHz Rating	Length	O.D.	Concentricity	Camber	I.D.	Wall Thickness
341-PP-7	800	7"	2.9935±0.0065mm	3.8 µm	3.8 µm	2.4195±0.0065mm	0.29mm
341-PP-8	800	8"	2.9935±0.0065mm	3.8 µm	3.8 µm	2.4195±0.0065mm	0.29mm
335-PP-7	600	7"	2.9935±0.0065mm	13 µm	6 µm	2.4195±0.0065mm	0.29mm
335-PP-8	600	8"	2.9935±0.0065mm	13 µm	6 µm	2.4195±0.0065mm	0.29mm
335-PP-9	600	9"	2.9935±0.0065mm	13 µm	6 µm	2.4195±0.0065mm	0.29mm
328-PP-7	500	7"	2.9935±0.0065mm	25 µm	13 µm	2.4195±0.0065mm	0.29mm
328-PP-8	500	8"	2.9935±0.0065mm	25 µm	13 µm	2.4195±0.0065mm	0.29mm
328-PP-9	500	9"	2.9935±0.0065mm	25 µm	13 µm	2.4195±0.0065mm	0.29mm
327-PP-7	400	7"	2.9935±0.0065mm	25 µm	25 µm	2.4195±0.0065mm	0.29mm
327-PP-8	400	8"	2.9935±0.0065mm	25 µm	25 µm	2.4195±0.0065mm	0.29mm
327-PP-9	400	9"	2.9935±0.0065mm	25 µm	25 µm	2.4195±0.0065mm	0.29mm
307-PP-7	300	7"	2.9935±0.0065mm	51 µm	25 µm	2.4195±0.0065mm	0.29mm
307-PP-8	300	8"	2.9935±0.0065mm	51 µm	25 µm	2.4195±0.0065mm	0.29mm
307-PP-9	300	9"	2.9935±0.0065mm	51 µm	25 µm	2.4195±0.0065mm	0.29mm
305-PS-7	200	7"	2.9935±0.0065mm	76 µm	51 µm	2.413±0.13mm	0.29mm
305-PS-8	200	8"	2.9935±0.0065mm	76 µm	51 µm	2.413±0.13mm	0.29mm
305-PS-9	200	9"	2.9935±0.0065mm	76 µm	51 µm	2.413±0.13mm	0.29mm

Wilmad 4mm O.D. Thin Walled Precision NMR Tubes

Catalog No.	MHz Rating	Length	O.D.	Concentricity	Camber	I.D.	Wall Thickness
435-PP-7	600	7"	3.9835±0.0065mm	13 µm	6 µm	3.240±0.013mm	0.38mm
427-PP-7	400	7"	3.9835±0.0065mm	25 µm	25 µm	3.240±0.013mm	0.38mm
427-PP-8	400	8"	3.9835±0.0065mm	25 µm	25 µm	3.240±0.013mm	0.38mm
427-PP-9	400	9"	3.9835±0.0065mm	25 µm	25 µm	3.240±0.013mm	0.38mm
406-PP-7	300	7"	3.9835±0.0065mm	76 µm	51 µm	3.240±0.013mm	0.38mm
406-PP-8	300	8"	3.9835±0.0065mm	76 µm	51 µm	3.240±0.013mm	0.38mm
406-PP-9	300	9"	3.9835±0.0065mm	76 µm	51 µm	3.240±0.013mm	0.38mm
405-PS-7	100	7"	3.9835±0.0065mm	152 µm	51 µm	3.2mm	0.4mm
405-PS-8	100	8"	3.9835±0.0065mm	152 µm	51 µm	3.2mm	0.4mm
405-PS-9	100	9"	3.9835±0.0065mm	152 µm	51 µm	3.2mm	0.4mm

Wilmad 5mm O.D. Thin Walled Precision NMR Tubes

Catalog No.	MHz Rating	Length	O.D.	Concentricity	Camber	I.D.	Wall Thickness
542-PP-7	1000	7"	4.9635±0.0065mm	2.5 µm	3.8 µm	4.2065±0.0065mm	0.38mm
542-PP-8	1000	8"	4.9635±0.0065mm	2.5 µm	3.8 µm	4.2065±0.0065mm	0.38mm
541-PP-7	800	7"	4.9635±0.0065mm	3.8 µm	3.8 µm	4.2065±0.0065mm	0.38mm
541-PP-8	800	8"	4.9635±0.0065mm	3.8 µm	3.8 µm	4.2065±0.0065mm	0.38mm
535-PP-7	600	7"	4.9635±0.0065mm	13 µm	6 µm	4.2065±0.0065mm	0.38mm
535-PP-8	600	8"	4.9635±0.0065mm	13 µm	6 µm	4.2065±0.0065mm	0.38mm
535-PP-9	600	9"	4.9635±0.0065mm	13 µm	6 µm	4.2065±0.0065mm	0.38mm
528-PP-7	500	7"	4.9635±0.0065mm	25 µm	13 µm	4.2065±0.0065mm	0.38mm
528-PP-8	500	8"	4.9635±0.0065mm	25 µm	13 µm	4.2065±0.0065mm	0.38mm
528-PP-9	500	9"	4.9635±0.0065mm	25 µm	13 µm	4.2065±0.0065mm	0.38mm
527-PP-7	400	7"	4.9635±0.0065mm	25 µm	25 µm	4.2065±0.0065mm	0.38mm
527-PP-8	400	8"	4.9635±0.0065mm	25 µm	25 µm	4.2065±0.0065mm	0.38mm
527-PP-9	400	9"	4.9635±0.0065mm	25 µm	25 µm	4.2065±0.0065mm	0.38mm
526-PP-7	350	7"	4.9635±0.0065mm	51 µm	13 µm	4.2065±0.0065mm	0.38mm
526-PP-8	350	8"	4.9635±0.0065mm	51 µm	13 µm	4.2065±0.0065mm	0.38mm
526-PP-9	350	9"	4.9635±0.0065mm	51 µm	13 µm	4.2065±0.0065mm	0.38mm
507-PP-7	300	7"	4.9635±0.0065mm	51 µm	25 µm	4.2065±0.0065mm	0.38mm
507-PP-8	300	8"	4.9635±0.0065mm	51 µm	25 µm	4.2065±0.0065mm	0.38mm
507-PP-9	300	9"	4.9635±0.0065mm	51 µm	25 µm	4.2065±0.0065mm	0.38mm
506-PP-7	200	7"	4.9635±0.0065mm	51 µm	51 µm	4.2065±0.0065mm	0.38mm
506-PP-8	200	8"	4.9635±0.0065mm	51 µm	51 µm	4.2065±0.0065mm	0.38mm
506-PP-9	200	9"	4.9635±0.0065mm	51 µm	51 µm	4.2065±0.0065mm	0.38mm
505-PS-7	100	7"	4.9635±0.0065mm	76 µm	51 µm	4.21±0.13mm	0.38mm
505-PS-8	100	8"	4.9635±0.0065mm	76 µm	51 µm	4.21±0.13mm	0.38mm
505-PS-9	100	9"	4.9635±0.0065mm	76 µm	51 µm	4.21±0.13mm	0.38mm



542-PP-7

Click on any Catalog No. to **Shop Now**

Standard Liquid Phase NMR Consumables

Wilmad 5mm O.D. Ultra-Thin Walled Precision NMR Tubes

Catalog No.	MHz Rating	Length	O.D.	Concentricity	Camber	I.D.	Wall Thickness
545-PPT-7	600	7"	4.9635±0.0065mm	13 µm	6 µm	4.4965±0.0065mm	0.24mm
545-PPT-8	600	8"	4.9635±0.0065mm	13 µm	6 µm	4.4965±0.0065mm	0.24mm
545-PPT-9	600	9"	4.9635±0.0065mm	13 µm	6 µm	4.4965±0.0065mm	0.24mm
540-PPT-7	400	7"	4.9635±0.0065mm	25 µm	13 µm	4.4965±0.0065mm	0.24mm
540-PPT-8	400	8"	4.9635±0.0065mm	25 µm	13 µm	4.4965±0.0065mm	0.24mm
540-PPT-9	400	9"	4.9635±0.0065mm	25 µm	13 µm	4.4965±0.0065mm	0.24mm
537-PPT-7	300	7"	4.9635±0.0065mm	51 µm	25 µm	4.4965±0.0065mm	0.24mm
537-PPT-8	300	8"	4.9635±0.0065mm	51 µm	25 µm	4.4965±0.0065mm	0.24mm
537-PPT-9	300	9"	4.9635±0.0065mm	51 µm	25 µm	4.4965±0.0065mm	0.24mm

Wilmad 5mm O.D. Medium Walled Precision NMR Tubes

Catalog No.	MHz Rating	Length	O.D.	Concentricity	Camber	I.D.	Wall Thickness
524-PP-7	400	7"	4.9635±0.0065mm	76 µm	51 µm	3.43±0.13mm	0.77mm
524-PP-8	400	8"	4.9635±0.0065mm	76 µm	51 µm	3.43±0.13mm	0.77mm
524-PP-9	400	9"	4.9635±0.0065mm	76 µm	51 µm	3.43±0.13mm	0.77mm
504-PP-7	300	7"	4.9635±0.0065mm	152 µm	51 µm	3.43±0.13mm	0.77mm
504-PP-8	300	8"	4.9635±0.0065mm	152 µm	51 µm	3.43±0.13mm	0.77mm
504-PP-9	300	9"	4.9635±0.0065mm	152 µm	51 µm	3.43±0.13mm	0.77mm
503-PS-7	100	7"	4.9635±0.0065mm	76 µm	51 µm	3.43±0.13mm	0.77mm
503-PS-8	100	8"	4.9635±0.0065mm	76 µm	51 µm	3.43±0.13mm	0.77mm
503-PS-9	100	9"	4.9635±0.0065mm	76 µm	51 µm	3.43±0.13mm	0.77mm

Wilmad 5mm O.D. Heavy Walled Precision NMR Tubes

Catalog No.	MHz Rating	Length	O.D.	Concentricity	Camber	I.D.	Wall Thickness
522-PP-7	500	7"	4.9635±0.0065mm	51 µm	51 µm	2.160±0.013mm	1.4mm
522-PP-8	500	8"	4.9635±0.0065mm	51 µm	51 µm	2.160±0.013mm	1.4mm
522-PP-9	500	9"	4.9635±0.0065mm	51 µm	51 µm	2.160±0.013mm	1.4mm
502-PP-7	300	7"	4.9635±0.0065mm	152 µm	51 µm	2.160±0.013mm	1.4mm
502-PP-8	300	8"	4.9635±0.0065mm	152 µm	51 µm	2.160±0.013mm	1.4mm
502-PP-9	300	9"	4.9635±0.0065mm	152 µm	51 µm	2.160±0.013mm	1.4mm
501-PS-7	100	7"	4.9635±0.0065mm	152 µm	51 µm	2.16±0.13mm	1.4mm
501-PS-8	100	8"	4.9635±0.0065mm	152 µm	51 µm	2.16±0.13mm	1.4mm
501-PS-9	100	9"	4.9635±0.0065mm	152 µm	51 µm	2.16±0.13mm	1.4mm

Wilmad 6.5mm O.D. Thin Walled Precision NMR Tubes

Catalog No.	MHz Rating	Length	O.D.	Concentricity	Camber	I.D.	Wall Thickness
6.5-PP-7	400	7"	6.5135±0.0065mm	51 µm	13 µm	5.7±0.013mm	0.41mm
6.5-PP-8	400	8"	6.5135±0.0065mm	51 µm	13 µm	5.7±0.013mm	0.41mm
6.5-PP-9	400	9"	6.5135±0.0065mm	51 µm	13 µm	5.7±0.013mm	0.41mm

Wilmad 7.5mm O.D. Thin Walled Precision NMR Tubes

Catalog No.	MHz Rating	Length	O.D.	Concentricity	Camber	I.D.	Wall Thickness
513B-7PP-7	400	7"	7.4835±0.0065mm	38 µm	13 µm	6.480±0.013mm	0.51mm
513B-7PP-8	400	8"	7.4835±0.0065mm	38 µm	13 µm	6.480±0.013mm	0.51mm
513B-7PP-9	400	9"	7.4835±0.0065mm	38 µm	13 µm	6.480±0.013mm	0.51mm
513B-1PP-7	100	7"	7.4835±0.0065mm	254 µm	51 µm	6.480±0.013mm	0.51mm
513B-1PP-8	100	8"	7.4835±0.0065mm	254 µm	51 µm	6.480±0.013mm	0.51mm
513B-1PP-9	100	9"	7.4835±0.0065mm	254 µm	51 µm	6.480±0.013mm	0.51mm

Wilmad 8mm O.D. Thin Walled Precision NMR Tubes

Catalog No.	MHz Rating	Length	O.D.	Concentricity	Camber	I.D.	Wall Thickness
513A-9PP-7	500	7"	7.9935±0.0065mm	13 µm	13 µm	6.990±0.013mm	0.51mm
513A-9PP-8	500	8"	7.9935±0.0065mm	13 µm	13 µm	6.990±0.013mm	0.51mm
513A-9PP-9	500	9"	7.9935±0.0065mm	13 µm	13 µm	6.990±0.013mm	0.51mm
513A-7PP-7	400	7"	7.9935±0.0065mm	38 µm	13 µm	6.990±0.013mm	0.51mm
513A-7PP-8	400	8"	7.9935±0.0065mm	38 µm	13 µm	6.990±0.013mm	0.51mm
513A-5PP-7	350	7"	7.9935±0.0065mm	51 µm	25 µm	6.990±0.013mm	0.51mm
513A-5PP-8	350	8"	7.9935±0.0065mm	51 µm	25 µm	6.990±0.013mm	0.51mm
513A-3PP-7	300	7"	7.9935±0.0065mm	76 µm	38 µm	6.990±0.013mm	0.51mm
513A-3PP-8	300	8"	7.9935±0.0065mm	76 µm	38 µm	6.990±0.013mm	0.51mm
513A-1PP-7	60	7"	7.9935±0.0065mm	254 µm	51 µm	6.990±0.013mm	0.51mm
513A-1PP-8	60	8"	7.9935±0.0065mm	254 µm	51 µm	6.990±0.013mm	0.51mm
513A-1PP-9	60	9"	7.9935±0.0065mm	254 µm	51 µm	6.990±0.013mm	0.51mm

Standard Liquid Phase NMR Consumables

Wilmad 10mm O.D. Thin Walled Precision NMR Tubes

Catalog No.	MHz Rating	Length	O.D.	Concentricity	Camber	I.D.	Wall Thickness
513-7PP-7	500	7"	9.9935±0.0065mm	38 µm	13 µm	9.070±0.013mm	0.46mm
513-7PP-8	500	8"	9.9935±0.0065mm	38 µm	13 µm	9.070±0.013mm	0.46mm
513-7PP-9	500	9"	9.9935±0.0065mm	38 µm	13 µm	9.070±0.013mm	0.46mm
513-5PP-7	400	7"	9.9935±0.0065mm	51 µm	25 µm	9.070±0.013mm	0.46mm
513-5PP-8	400	8"	9.9935±0.0065mm	51 µm	25 µm	9.070±0.013mm	0.46mm
513-5PP-9	400	9"	9.9935±0.0065mm	51 µm	25 µm	9.070±0.013mm	0.46mm
513-3PP-7	300	7"	9.9935±0.0065mm	76 µm	38 µm	9.070±0.013mm	0.46mm
513-3PP-8	300	8"	9.9935±0.0065mm	76 µm	38 µm	9.070±0.013mm	0.46mm
513-3PP-9	300	9"	9.9935±0.0065mm	76 µm	38 µm	9.070±0.013mm	0.46mm
513-1PP-7	200	7"	9.9935±0.0065mm	254 µm	51 µm	9.070±0.013mm	0.46mm
513-1PP-8	200	8"	9.9935±0.0065mm	254 µm	51 µm	9.070±0.013mm	0.46mm
513-1PP-9	200	9"	9.9935±0.0065mm	254 µm	51 µm	9.070±0.013mm	0.46mm
513-1PS-7	100	7"	9.9935±0.0065mm	254 µm	51 µm	8.90±0.13mm	0.55mm
513-1PS-8	100	8"	9.9935±0.0065mm	254 µm	51 µm	8.90±0.13mm	0.55mm
513-1PS-9	100	9"	9.9935±0.0065mm	254 µm	51 µm	8.90±0.13mm	0.55mm

Wilmad 10mm O.D. Medium Walled Precision NMR Tubes

Catalog No.	MHz Rating	Length	O.D.	Concentricity	Camber	I.D.	Wall Thickness
513-7PPM-7	200	7"	9.9935±0.0065mm	38 µm	13 µm	8.160±0.013mm	0.92mm
513-7PPM-8	200	8"	9.9935±0.0065mm	38 µm	13 µm	8.160±0.013mm	0.92mm
513-7PPM-9	200	9"	9.9935±0.0065mm	38 µm	13 µm	8.160±0.013mm	0.92mm

Wilmad 10mm O.D. Heavy Walled Precision NMR Tubes

Catalog No.	MHz Rating	Length	O.D.	Concentricity	Camber	I.D.	Wall Thickness
513-7PPH-7	450	7"	9.9935±0.0065mm	51 µm	13 µm	7.100±0.013mm	1.45mm
513-7PPH-8	450	8"	9.9935±0.0065mm	51 µm	13 µm	7.100±0.013mm	1.45mm
513-7PPH-9	450	9"	9.9935±0.0065mm	51 µm	13 µm	7.100±0.013mm	1.45mm

Wilmad 12mm O.D. Thin Walled Precision NMR Tubes

Catalog No.	MHz Rating	Length	O.D.	Concentricity	Camber	I.D.	Wall Thickness
514A-7PP-7	400	7"	12.065±0.008mm	38 µm	13 µm	11.050±0.013mm	0.51mm
514A-7PP-8	400	8"	12.065±0.008mm	38 µm	13 µm	11.050±0.013mm	0.51mm
514A-7PP-9	400	9"	12.065±0.008mm	38 µm	13 µm	11.050±0.013mm	0.51mm

Wilmad 18mm O.D. Medium Walled Precision NMR Tubes

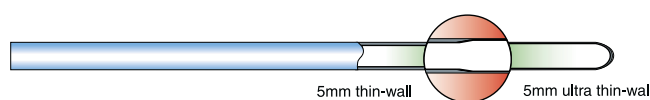
Catalog No.	MHz Rating	Length	O.D.	Concentricity	Camber	I.D.	Wall Thickness
18-PP-7	350	7"	18.000±0.013mm	51 µm	25 µm	17.00±0.013mm	0.50mm
18-PP-8	350	8"	18.000±0.013mm	51 µm	25 µm	17.00±0.013mm	0.50mm
18-PP-9	350	9"	18.000±0.013mm	51 µm	25 µm	17.00±0.013mm	0.50mm

Wilmad 20mm O.D. Medium Walled Precision NMR Tubes

Catalog No.	MHz Rating	Length	O.D.	Concentricity	Camber	I.D.	Wall Thickness
20-9-7	350	7"	20.000±0.013mm	51 µm	25 µm	18.050±0.013mm	0.97mm
20-9-8	350	8"	20.000±0.013mm	51 µm	25 µm	18.050±0.013mm	0.97mm
20-9-9	350	9"	20.000±0.013mm	51 µm	25 µm	18.050±0.013mm	0.97mm

Wilmad Precision Step-Down Tubes

Precision Step-Down Tubes change wall thickness from Thin-Wall to Ultra Thin-Wall within the Rf coil limit. This change in wall thickness allows for 15% more sample volume and a less fragile tube than standard Ultra Thin-Walled tubes.



Wilmad 5mm O.D. Step-Down Ultra-Thin Walled Precision NMR Tubes

Catalog No.	MHz Rating	Length	O.D.	Concentricity	Camber	Bottom I.D.	Bottom Wall Thickness
555-PPT-7	600	7"	4.9635±0.0065mm	13 µm	6 µm	4.4965±0.0065mm	0.24mm
555-PPT-8	600	8"	4.9635±0.0065mm	13 µm	6 µm	4.4965±0.0065mm	0.24mm
555-PPT-9	600	9"	4.9635±0.0065mm	13 µm	6 µm	4.4965±0.0065mm	0.24mm