

STANDARD SERIES™ FOR ROUTINE NMR

Manufactured from ASTM Type 1 Class B glass, commonly referred to as N-51A

Our "Standard Series™" NMR tubes are manufactured out of ASTM Type 1 Class B glass, commonly referred to as N-51A. Applications that are suited for using this type of glass are routine NMR where samples are run under room temperatures with no thermal gradients. It is therefore not recommended to fuse this glass with standard vacuum manifolds and the like, since these are generally made out of Type 1 Class A glass. Each NMR tube is checked for concentricity and camber specifications utilizing the latest computer technology. At Norell we have taken NMR tube manufacturing to a new level of science.

5mm Ultra-Precision, High-Precision & Precision NMR Sample Tubes

Item No.	MHz	O.D. (mm)	I.D. (mm)	Concentricity (mm)	Camber ±(mm)	Length (mm)	Packed In Lots of
5020-USP-7	1000	4.97 ± 0.004	4.20 ± 0.006	0.003	0.004	178	5
5020-USP-8	1000	4.97 ± 0.004	4.20 ± 0.006	0.003	0.004	203	5
5010-USP-7	750	4.97 ± 0.005	4.20 ± 0.012	0.004	0.005	178	5
5010-USP-8	750	4.97 ± 0.005	4.20 ± 0.012	0.004	0.005	203	5
509-UP-7	600	4.97 ± 0.006	4.20 ± 0.012	0.004	0.006	178	5
509-UP-8	600	4.97 ± 0.006	4.20 ± 0.012	0.004	0.006	203	5
508-UP-7	500	4.97 ± 0.013	4.20 ± 0.025	0.005	0.013	178	5
508-UP-8	500	4.97 ± 0.013	4.20 ± 0.025	0.005	0.013	203	5
507-HP-7	400	4.97 ± 0.013	4.20 ± 0.025	0.007	0.019	178	5
507-HP-8	400	4.97 ± 0.013	4.20 ± 0.025	0.007	0.019	203	5
506-P-7	300	4.97 ± 0.025	4.20 ± 0.025	0.007	0.025	178	25
506-P-8	300	4.97 ± 0.025	4.20 ± 0.025	0.007	0.025	203	25
XR-55™-7	300	4.97 ± 0.025	4.20 ± 0.025	0.010	0.038	178	25
XR-55™-8	300	4.97 ± 0.025	4.20 ± 0.025	0.010	0.038	203	25
505-P-7	200	4.97 ± 0.030	4.20 ± 0.030	0.010	0.040	178	25
505-P-8	200	4.97 ± 0.030	4.20 ± 0.030	0.010	0.040	203	25



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5mm Economy High-Throughput NMR Sample Tubes

Item No.	MHz	O.D. (mm)	I.D. (mm)	Concentricity (mm)	Camber ±(mm)	Length (mm)	Packed In Lots of
502-7	HT ^{PLUS}	4.97 ± 0.050	4.20 ± 0.050	0.020	0.070	178	50
502-8	HT ^{PLUS}	4.97 ± 0.050	4.20 ± 0.050	0.020	0.070	203	50
552-7	HT ^{PLUS}	4.97 ± 0.050	4.20 ± 0.050	0.020	0.070	178	5
552-8	HT ^{PLUS}	4.97 ± 0.050	4.20 ± 0.050	0.020	0.070	203	5
ST500-7	HT	4.97 ± 0.070	4.20 ± 0.070	0.025	0.075	178	100
ST500-8	HT	4.97 ± 0.070	4.20 ± 0.070	0.025	0.075	203	100
ST550-7	HT	4.97 ± 0.070	4.20 ± 0.070	0.025	0.075	178	5
ST550-8	HT	4.97 ± 0.070	4.20 ± 0.070	0.025	0.075	203	5

NMR tubes are manufactured with round bottoms and are available with flat bottoms upon request.

We manufacture all NMR tubes in any length upon request.



NORELL®

E-MAIL: customerservice@nmrtubes.com

WEBSITE: nmrtubes.com

TO ORDER CALL: 1.828.584.2600 **FAX:** 1.828.584.2604

STANDARD SERIES™ FOR ROUTINE NMR

10mm Ultra-Precision & Precision NMR Sample Tubes

Item No.	MHz	O.D. (mm)	I.D. (mm)	Concentricity (mm)	Camber ±(mm)	Length (mm)	Packed In Lots of
1008-UP-7	400	10.00 ± 0.013	8.76 ± 0.025	0.005	0.007	178	5
1008-UP-8	400	10.00 ± 0.013	8.76 ± 0.025	0.005	0.007	203	5
1005-P-7	300	10.00 ± 0.013	8.76 ± 0.025	0.020	0.013	178	5
1005-P-8	300	10.00 ± 0.013	8.76 ± 0.025	0.020	0.013	203	5

10mm Economy NMR Sample Tubes

Item No.	MHz	O.D. (mm)	I.D. (mm)	Concentricity (mm)	Camber ±(mm)	Length (mm)	Packed In Lots of
1001-7	200	10.00 ± 0.013	8.76 ± 0.025	nominal	nominal	178	100
1001-8	200	10.00 ± 0.013	8.76 ± 0.025	nominal	nominal	203	100

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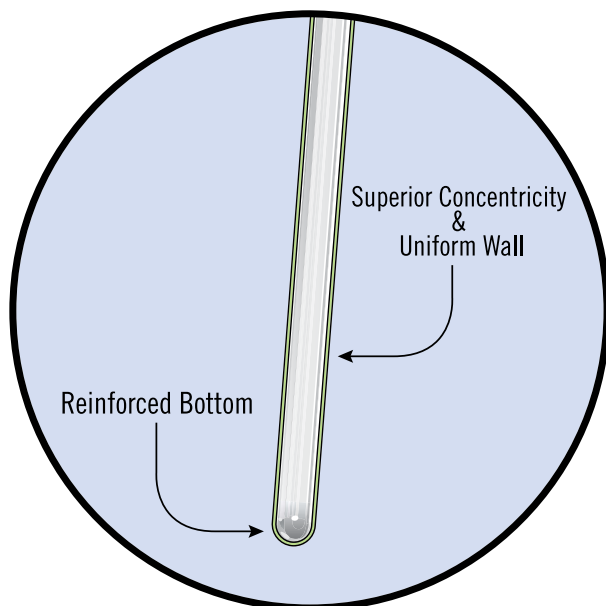
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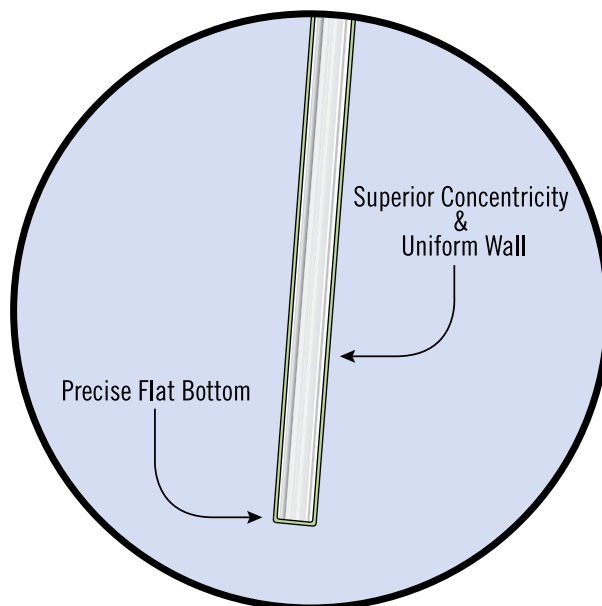
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STANDARD SERIES™ FOR ROUTINE NMR

NORELL® Reinforced Bottom NMR Tube



NORELL® Flat Bottom NMR Tube



Through our advanced manufacturing process, the NMR tube bottoms are uniformly hemispherical and consistent, thereby minimizing shimming and susceptibility differences among samples. This uniformity extends throughout the wall thickness of the tubes, maximizing the concentricity among tubes and lots. This translates to more consistent placement of the contained sample volumes in today's advanced, highly homogeneous, high field NMR magnets.

NMR tubes are manufactured with round bottoms and are available with flat bottoms upon request.
We manufacture all NMR tubes in any length upon request.

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