

## 5mm NMR sample tubes from New Era

New Era NMR Sample Tubes are produced to the highest industrial standards and are individually inspected to ensure that each tube meets the published specifications. These tubes will give the highest quality spectra with the most repeatable



The following chart is a guide to the most appropriate use for various applications and MHz

MHz	General Application	Sample Tubes
100 to 300	Routine organic chemistry; Educational applications	NE-LL5-, NE-LP5-
300 to 400	Routine organic chemistry; Educational applications; Routine synthetic chemistry research; High throughput	NE-ML5-, NE-MP5-
400 to 500	Routine synthetic chemistry research; High throughput	NE-HL5-, NE-HP5-
500 to 700	Organic chemistry research; Metabolic mixture analysis (biofluids); High throughput	NE-UL5-, NE-UP5-
700 to 800+	Structural biology, Metabolic analysis; Multi purpose research	NE-SL5-, NE-SP5-

### Tubes for QC / Routine analysis / Research

#### “L” Series 5mm NMR Sample Tubes (4.960 +/- 0.006mm OD; 0.40mm nominal wall; 0.0025mm roundness)

These tubes are ideal for biological samples, hands on and high throughput / auto sampler and samples not requiring special handling. Suitable for all experiments when matched to the application and instrument field strength. Each tube is capped and marked with the part number.

These tubes are made of Type 1, Class B Borosilicate Glass, offering comparable spectral performance to Pyrex or equivalent. They are not suitable for flame sealing to Pyrex or equivalent.

Part number	Usage MHz	Wilmad equivalent	Wall variation (+/-mm)	Camber (+/-mm)	Length
NE-LL5-7	100 to 300	506-PP-7	0.010	0.025	7" (178mm)
NE-LL5-8	100 to 300	506-PP-8	0.010	0.025	8" (203mm)
NE-ML5-7	300 to 400	507-PP-7	0.0075	0.019	7" (178mm)
NE-ML5-8	300 to 400	507-PP-8	0.0075	0.019	8" (203mm)
NE-HL5-7	400 to 500	528-PP-7	0.0065	0.0065	7" (178mm)
NE-HL5-8	400 to 500	528-PP-8	0.0065	0.0065	8" (203mm)
NE-UL5-7	500 to 700	535-PP-7	0.003	0.003	7" (178mm)
NE-UL5-8	500 to 700	535-PP-8	0.003	0.003	8" (203mm)
NE-SL5-7	700 to 900+	541-PP-7	0.001	0.002	7" (178mm)
NE-SL5-8	700 to 900+	542-PP-7	0.001	0.002	8" (203mm)

## Superior Research / Air-Moisture Sensitive / Vacuum Studies

### “P” Series 5mm NMR Sample Tubes (4.960 +/- 0.006mm OD; 0.38mm nominal wall; 0.0025mm roundness)

These tubes are suitable for all experiments when matched to the application and field strength. They are useful for air-moisture sensitive samples, organometallics, kinetics and other samples requiring carefully controlled environments. Each tube is capped and marked with the part number.

The tubes are made of Type 1, Class A Borosilicate Glass (Pyrex or equivalent).

Part number	Usage MHz	Wilmad equivalent	Wall variation (+/-mm)	Camber (+/-mm)	Length
NE-LP5-7	100 to 300	567-PP-7	0.025	0.019	7" (178mm)
NE-LP5-8	100 to 300	506-PP-8	0.025	0.019	8" (203mm)
NE-LP5-9	100 to 300		0.025	0.019	9" (229mm)
NE-MP5-7	300 to 400	507-PP-7	0.019	0.010	7" (178mm)
NE-MP5-8	300 to 400	507-PP-8	0.019	0.010	8" (203mm)
NE-MP5-9	300 to 400		0.019	0.010	9" (229mm)
NE-HP5-7	400 to 500	528-PP-7	0.010	0.006	7" (178mm)
NE-HP5-8	400 to 500	528-PP-8	0.010	0.006	8" (203mm)
NE-HP5-9	400 to 500		0.010	0.006	9" (229mm)
NE-UP5-7	500 to 700	535-PP-7	0.006	0.003	7" (178mm)
NE-UP5-8	500 to 700	535-PP-8	0.006	0.003	8" (203mm)
NE-UP5-9	500 to 700		0.006	0.003	9" (229mm)
NE-SP5-7	700 to 900+	541-PP-7	0.002	0.002	7" (178mm)
NE-SP5-8	700 to 900+	541-PP-8	0.002	0.002	8" (203mm)

## High Temperature / UV Studies

### “Q” Series Quartz 5mm Sample Tubes (0.1950 to 0.1955" OD x 0.50mm wall)

These tubes are in application requiring temperatures above 150°C and in studies requiring UV irradiation. Each tube is marked and capped.

Part number	Usage MHz	Wilmad equivalent	Wall variation (+/-inch)	Camber (+/-inch)	Length
NE-MQ5-7	200		0.002"	0.001"	7" (178mm)
NE-MQ5-8	200		0.002"	0.001"	8" (203mm)
NE-HQ5-7	300 to 500		0.001"	0.0005"	7" (178mm)
NE-HQ5-8	300 to 500		0.001"	0.0005"	8" (203mm)