



DURAN
WHEATON
KIMBLE

Excellence in your hands

NMR-TUBES PRECISE AND PERFECTLY TUNED

NMR tubes from DWK Life Sciences are available in two different borosilicate glass versions (**borosilicate glass 3.3** and **borosilicate glass 5.1**). The individual tubes differ in terms of their qualities and their **application and required resonance frequency ranges**. All four variants meet the highest quality requirements of their respective fields of application in industry and research and are characterised by **maximum precision**. To ensure this high quality, each tube passes through a **laser check system** and is individually tested according to its specifications.

For all NMR tubes a certificate can be retrieved online from our website using the Retrace Code. The Retrace Code can be found on the packaging label.

NMR – WHAT IS THAT?

Nuclear magnetic resonance spectroscopy (NMR spectroscopy) is a spectroscopic method to elucidate the structure of molecules and compounds. Due to electronic interactions of single atoms with the neighbouring atoms, structural conclusions can be drawn. In addition to structure elucidation, the concentration and dynamics of molecules can be determined with this method.



NMR TUBES FROM DWK LIFE SCIENCES

OPTIMIZED FOR FAST AND ACCURATE TEST RESULTS

- Good uniformity of diameter
- Uniform wall thickness
- Excellent straightness

NMR tubes from DWK Life Sciences have a **diameter of 5 mm** and a standard length of 178 mm. Depending on the NMR application, the NMR tubes are available in four different versions. They are very thin-walled and thus ensure the **analysis of large substance volumes with the smallest diameter**. The tubes **do not contain any paramagnetic substances**. Depending on the NMR application, the tubes are available in four different versions.

AVAILABLE IN FOUR VARIANTS – PERFECTLY MATCHED TO YOUR APPLICATION

DWK Economic 5.1	The disposable for economical use with high throughput in the low-frequency range	100 MHz	borosilicate glass 5.1
DURAN® Economic	For economical use in fully automatic sample changers and for high throughput	300 MHz	borosilicate glass 3.3
DURAN® Professional	For professional use in industry and research in the medium and high resolution range of NMR spectroscopy	400 MHz	borosilicate glass 3.3
DURAN® Scientific	For scientific use with valuable samples at optimal substance utilization in the highest resolution range of NMR spectroscopy	500 MHz	borosilicate glass 3.3



ORDERING INFORMATION

Description	Frequency	Length [mm]	AD [mm]	ID [mm]	Chamber [mm]	Pack unit [pieces]	Cat.no.
NEW DWK Economic 5.1	100 MHz	178	4,94 +/- 0,04	4,20 +/- 0,04	0,07	100	23 170 00 06
DURAN® Economic	300 MHz	178	4,97 +/- 0,05	4,20 +/- 0,05	0,07	250	23 170 01 17
DURAN® Professional	400 MHz	178	4,97 +/- 0,025	4,20 +/- 0,025	0,03	250	23 170 02 11
DURAN® Scientific	500 MHz	178	4,97 +/- 0,0013	4,20 +/- 0,025	0,013	5	23 170 03 14



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