

Valved NMR Tubes, 5 and 10 mm, ASTM Type 1, Class B, Borosilicate Glass

KONTES valved NMR tubes are designed to improve sample handling during the investigation of volatile, air-sensitive or toxic compounds. Condensation of sample occurs directly into the NMR tube through the use of vacuum techniques. A special KONTES HI-VAC[™] valve maximizes sample recovery and permits resealing as opposed to the permanent "seal-off" method. The HI-VAC valve features a borosilicate glass body and PTFE plug so that the sample is in contact with inert materials. The valve is greaseless, thereby eliminating the risk of sample contamination. The rotationally symmetrical design, with two lateral ports located near the valve seat, permits use at higher temperatures. A glass tube with a Viton[®] o-ring seal is used to connect the valved NMR tube to a vacuum system.

KONTES valved NMR tubes are available in two diameters, 5 mm O.D. (7, 8, and 9 inch lengths) and 10 mm O.D. (7 inch length). All sizes are precision grade and are suitable for use in instruments with field strengths of greater than 360 MHz.

Article Number	Wilmad Equivalent	Tube Diam. (mm)	Length, Inches	Wall Thickness	Wall Variation T.I.R. †	Wall Camber T.I.R. †
897435-0000	528-JY-7	5	7	0.01475	0.0010	0.0005
897435-0008	528-JY-8	5	8	0.01475	0.0010	0.0006
897435-0009	528-JY-9	5	9	0.01475	0.0010	0.0008
897535-0000	513-7JY-7	10	7	0.0182	0.0015	0.0005

Threaded NMR Tubes, 5 and 10 mm, ASTM Type 1, Class B, Borosilicate Glass

KONTES threaded NMR tubes with caps and septa facilitate sample storage and allow access to the sample with a syringe. These tubes can be easily cleaned and reused; replacement caps and septa are available. KONTES threaded NMR tubes can be used for air-sensitive samples and reaction studies where compounds may be added through the septum cap. Tubes are available in 5 and 10 mm diameters and both sizes are suitable for instruments with field strengths of greater than 360 MHz.

Article Number	Wilmad Equivalent	Description	Tube O.D. (mm)	Approx. Overall Length, Inches
897635-0800	528-TR-7	NMR Tube, 8-425 Thread	5	7.5
897735-1300	513-7TRa-7	NMR Tube, 13-425 Thread	10	8

Replacement Parts

410116-0825	TR-OC-01	Cap, Open Top, 8-425 GPI Thread, Pkg./48 (1 Sup.)
410116-1325	TR-OC-03	Cap, Open Top, 13-425 GPI Thread, Pkg./48 (1 Sup.)
774161-0008	TR-LS-01	Septum, PTFE/Silicone, fits 8 mm Cap, Pkg./48 (1 Sup.)
774161-0013	TR-LS-03	Septum, PTFE/Silicone, fits 13 mm Cap, Pkg./48 (1 Sup.)

Seal-Off NMR Tubes, 5 mm, ASTM Type 1, Class A, Borosilicate Glass

KONTES Seal-Off NMR tubes provide the best security against sample degradation during the investigation of volatile, air-sensitive or toxic compounds.

Overall length is 9". Constriction opening 0.5 to 2.0 mm and is located 1.8" from the cap end of the tube leaving a 7.2" long tube after seal-off.

Each tube is supplied with a polyethylene cap and features a sand blasted marking spot for easy identification.

Article Number	Grade	Approx. MHz	Wall Thickness	Wall Variation T.I.R. †	Camber
897750-0245	Platinum	>800	0.01475	0.0002	0.00015
897750-0240	Gold	>400	0.01475	0.0005	0.00025
897750-0235	Silver	>360	0.01475	0.0010	0.00005

† T.I.R. = TOTAL INDICATOR READING IN INCHES.