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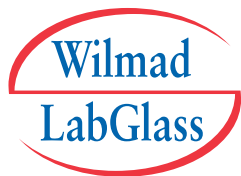
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Select-A-Product Guide

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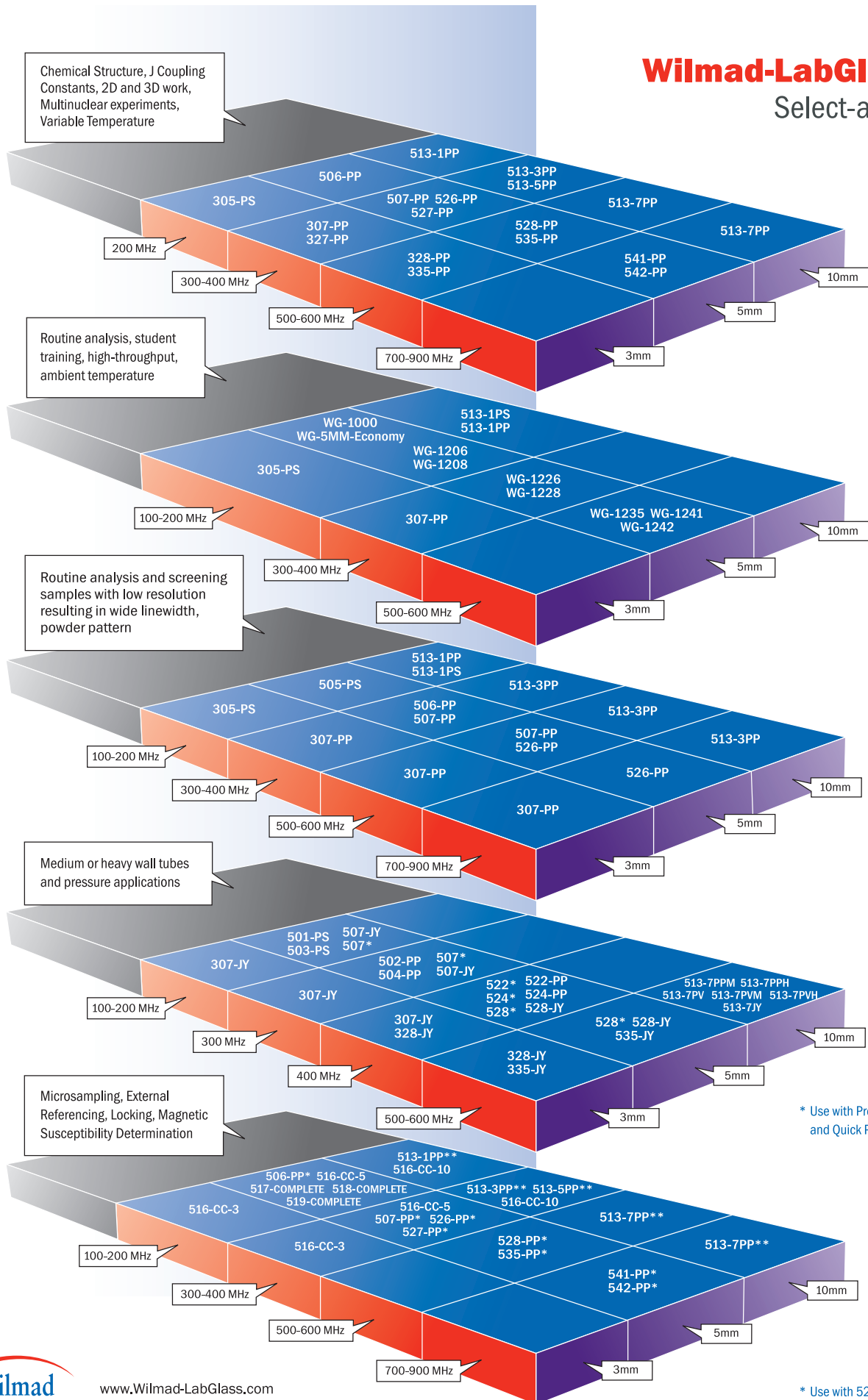
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Wilmad-LabGlass NMR

Select-a-Tube Guide



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* Use with Pressure Valve (PV) and Quick Pressure Valve (QPV)

* Use with 529, WGS-5BL, 517-INNER, 518-INNER, and 519-INNER
 ** Use with WGS-10BL and 529

Wilmad-LabGlass Economy and Precision Tube Comparison Sheet

	Economy	Precision (Glass)	Precision (Quartz)	Precision (Suprasil)
Material	ASTM Type 1 Class B Borosilicate Glass (commercial name N51A)	ASTM Type 1 Class A Borosilicate Glass (commercial name Pyrex)	Clear Fused Quartz	Synthetic Quartz
Impact on shimming quality by paramagnetic impurities¹	Medium (>1200 ppm Fe ₂ O ₃)	Small (400 ppm Fe ₂ O ₃)	None (0.5 ppm Fe ₂ O ₃)	None (<0.005 ppm Fe ₂ O ₃)
Rapid cooling/heating	No	Yes, within 120 °C	Yes, within 300 °C	Yes, within 300 °C
Max. working temperature	Ambient	230 °C	1300 °C	1300 °C
Sample volume reproducibility²	10%	0.5%	0.5%	0.5%
Cut-off wavelength	320 nm	320 nm	265 nm	190 nm

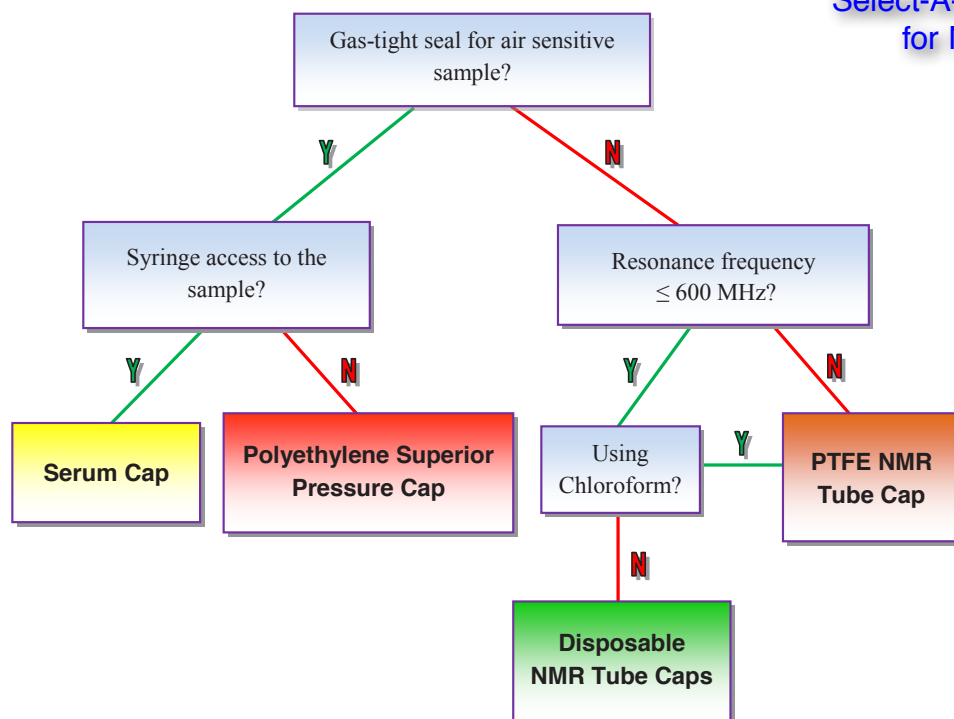
Note 1: Impact on shimming quality varies upon magnetic field strength. Economy tube is recommended for 1D low field experiments.
 Note 2: Sample volume reproducibility refers to the maximum volume fluctuation when filling different NMR tubes to the same sample height. This number correlates to the reproducibility of time domain signal amplitude between different runs.



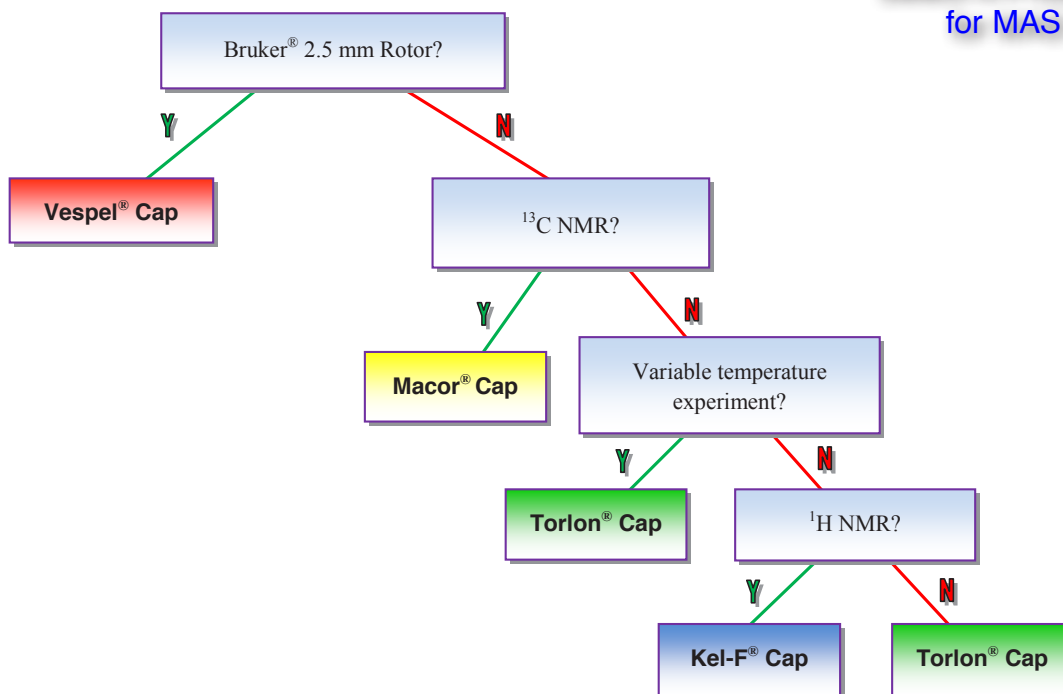
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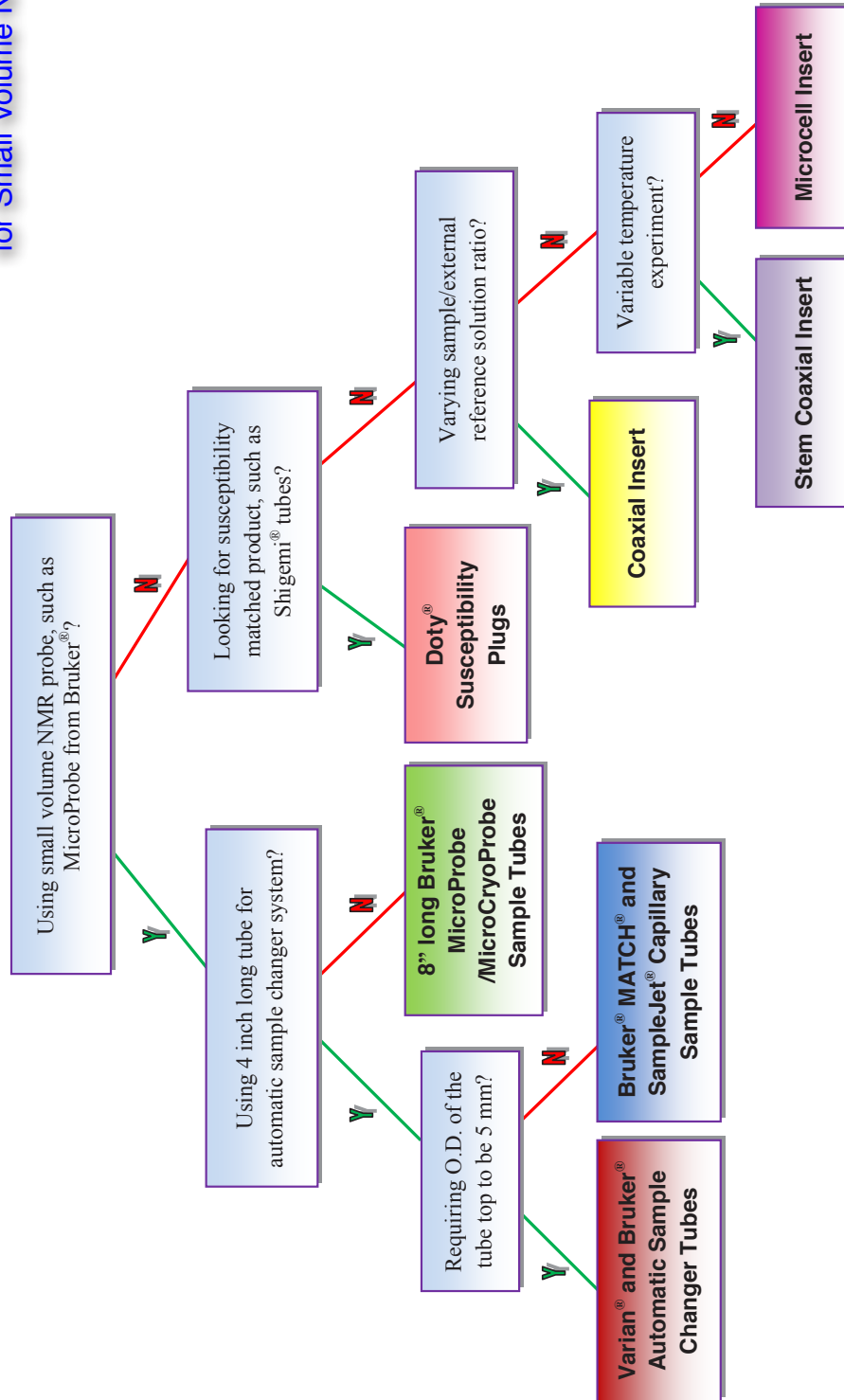
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Wilmad-LabGlass
Select-A-Product Guide
for NMR Caps



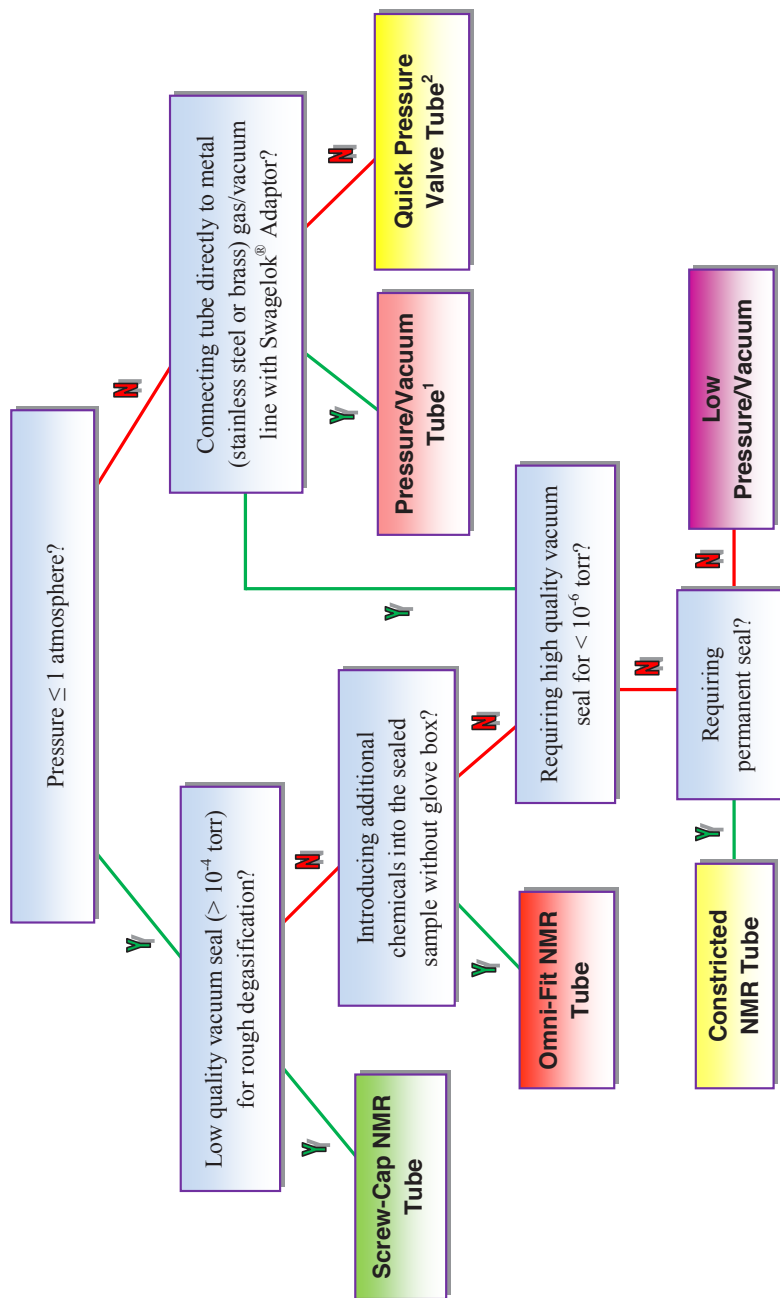
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Wilmad-LabGlass Select-A-Product Guide for Gas-Tight Tubes

Use Universal Solvent Jet NMR Tube Washer WG-7200-2(J2) to wash Low Pressure/Vacuum Tube and Screw-Cap NMR Tube.
 Use Universal Solvent Jet NMR Tube Washer WG-7200-1(J1) to wash Quick Pressure Valve Tube and Omni-Fit NMR Tube.
 Use Hamilton Syringe 81420 plus PTFE Needle 90630 to wash Pressure/Vacuum Tube.



Note 1: Please check the maximum pressure for Quick Pressure Valve Tube and Pressure/Vacuum NMR Tube.

Note 2: For any experiment with NH₃ gas or other corrosive gas, we recommend Quick Pressure Valve Tube with Kallrez® O-ring



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