



3 mm Maximum MAS Spinning Speeds

Use the lower of the speeds listed: considering the rotor, the cap, the temperature and the density maximum speeds

Rotors: The maximum speed must be reduced as the density of the sample increases.		
DI3 Silicon Nitride Rotors Maximum Speed	26 KHz	For sample density = 1
	24 KHz	For sample density = 3
Maximum Spinning Speeds (kHz) For Caps at Room Temperature		
Cap Style	DI-3 Spinning at Room Temperature	Cap Material Temperature Range
Torlon Front Turbine Cap	26 KHz	-30° to 80 °C
Torlon Rear Tip Cap	26 KHz	
GFT* Front Turbine Cap	26 KHz	-120° to 160 °C
GFT* Rear Tip Cap	26 KHz	
Kel-F Front Turbine Cap	11 KHz	-20° to 70 °C
Kel-F Rear Tip Cap	11 KHz	
*Maximum Spinning Speeds (KHz) For Caps at Extended Temperatures Spinning speeds must be reduced for higher or lower temperatures.		
Glass Filled Torlon (GFT)*	14 KHz At -80°C	-120° to 160 °C
Glass Filled Torlon (GFT)*	14 KHz At +120°C	-120° to 160 °C

* Note: **GFT caps** can be used up to 250 °C or down to -170 °C if they are glued in with epoxy. **However the probe must be rated for these extended temperatures.**