

Pole Shims for DSA332

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Magnet DSA332 has similar insulation to DSA330. However, the azimuthal sizing data from the outer coils of DSA332 shows a ~5 mil decrease relative to the outer coils of DSA330. The difference could be due to the difference in thickness between H and HA film Kapton; only 1/40 * 5 mils difference is necessary. (This factor comes from ~20 turns * 2 layers (1/2 lap) * 2 sides per turn.) The inner coil sizes of both magnets are about equal.

The average inner and outer coil pressures of DSA330 were acceptable. Therefore, we have instructed Imre to add 0 mils and 10 mils of pole shim to the inner and outer coils respectively of DSA332.

Magnet	DSA330	DSA332		
Inner Pressure	9179 psi			
Outer Pressure	10480 psi			
Inner Shim	0 mils	0 mils recommended		
Outer Shim	5 mils	10 mils recommended		
Inner Size (Relative to Master at 12 kpsi)				
	50-135 +12.0 mils	50-137	+12.4 mils	
	50-136 +11.0 mils	50-138	+10.9 mils	
Outer Size (Relative to Master at 12 kpsi)				
	50-235 -5.8 mils	50-237	-11.0 mils	
	50-236 -8.6 mils	50-238	-11.9 mils	

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