

TECH NOTES – Drill Sizes

DRILL SIZE IS IMPORTANT ON PERFECTEST COUPONS

When drilling the PerfectTest coupon, it is important to use the correct drill size, **the one specified for the specific PerfectTest coupon being used**. Notice that there are three different PerfectTest coupons in general use. Each of these three coupons uses a different drill size, and is designed to work with a specific probe. Following are the specifications for each coupon, and the probe model used with that coupon.

Coupon #	Used with probe model	DIA/test pins on probe		Drill size		Date introduced
		(inches)	(mm)	(inches)	(mm)	
99A	99A	.24"	0.62	.022"	0.56	Apr-99
97A	97A	.25"	0.63	0.024"	0.61	12-97 (Superceded by 99A)
92A	92A	.25"	0.63	.026"	0.66	6-92 (Superceded by 97A)
99BP	99BP	.044"	1.1	.044"	1.1	4-92 (Used on back-panels, & panels more than than .09"-2.3mm thick)

Notice that the specified drill size is important. The finished hole size is not important. Drilled holes in the PerfectTest coupon must always be smaller than the pins on the probe you are using.

Using the incorrect drill size on the PerfectTest coupon will result in:

- incorrect test data.
- probe pins sticking in the drilled hole, if the hole is larger than specified.
- pins being pulled out of the probe **(on the 99A model probe only)**.
- pins bending or breaking.

It is important to understand that the pins in the PerfectTest probe are supposed to contact **only the surface of the pads** on the coupon - **they are not supposed to go into the holes**. If the drill size is larger than specified, the pins may wedge into the hole, causing it to bend or break, or to be pulled out when the probe is removed.

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