

February 4, 2004

## **Ti Alloy Ti-6Al-4V) & VascoMax-350 Fabrication**

Dear Morrison, John

I am attaching a PRELIMINARY specimen description for the Ti alloy and the Vascomax 350 that you received from Kirk McDonald. The FINAL will be sent tomorrow. However, this version indicates the QUANTITY of specimens and the geometry (should not expect to change between today and tomorrow). I just have to include certain notes and assembly figures to help the shops.

All dimensions and tolerances are shown on the corresponding figures, including the number of specimens we will need to fabricate.

Note that the neck-down section of the Vascomax-350 is specified as 1.5mm wide. The same section for Ti-alloy is 2mm.

### **NOTE -2**

The alignment 1.0mm diameter THRU holes are there to assist the fabrication. If the machine shop feels that they can do it without the holes, then the holes can be ignored. If the holes must be made, the diameter DOES NOT have to be 1.0mm but something close to it that is achievable at the shop.

### **NOTE-3**

Care must be taken during fabrication so the TENSILE and CTE specimens MATE perfectly.

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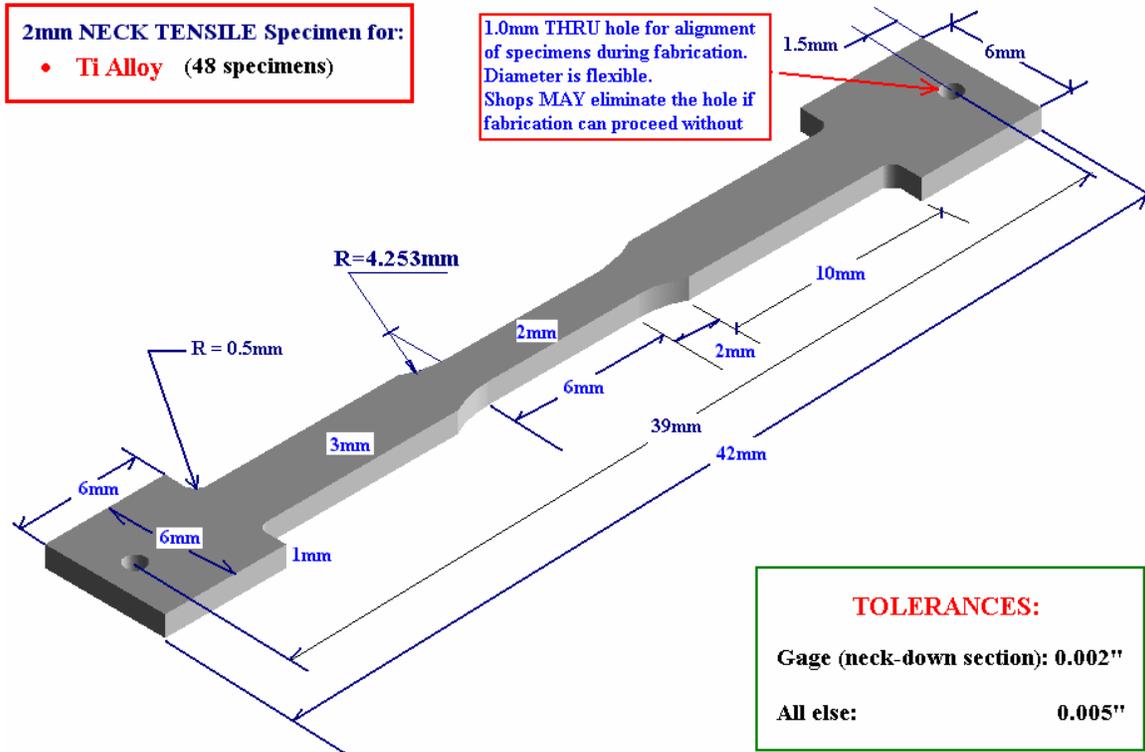


Figure 1. Ti-alloy Tensile Specimen

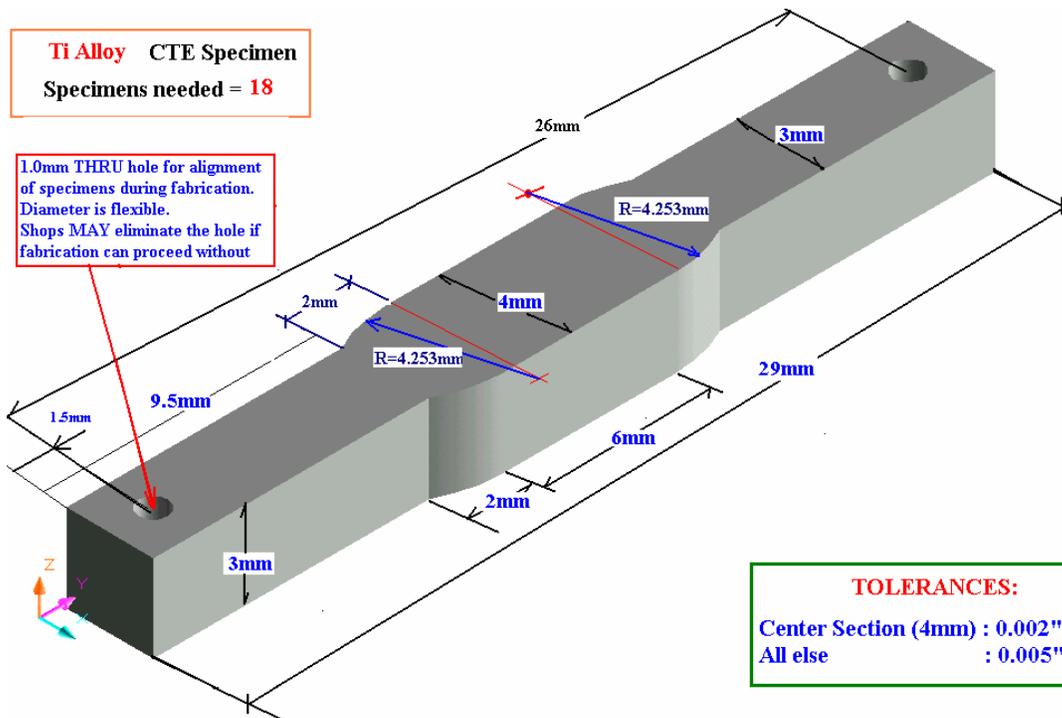
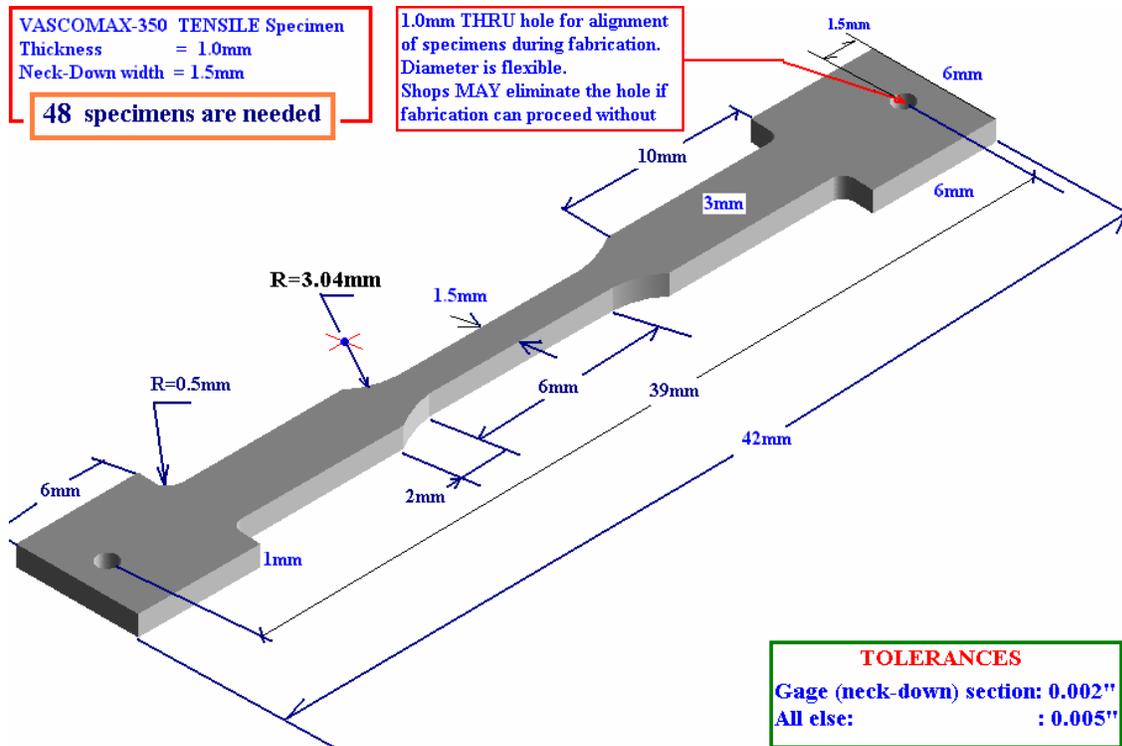
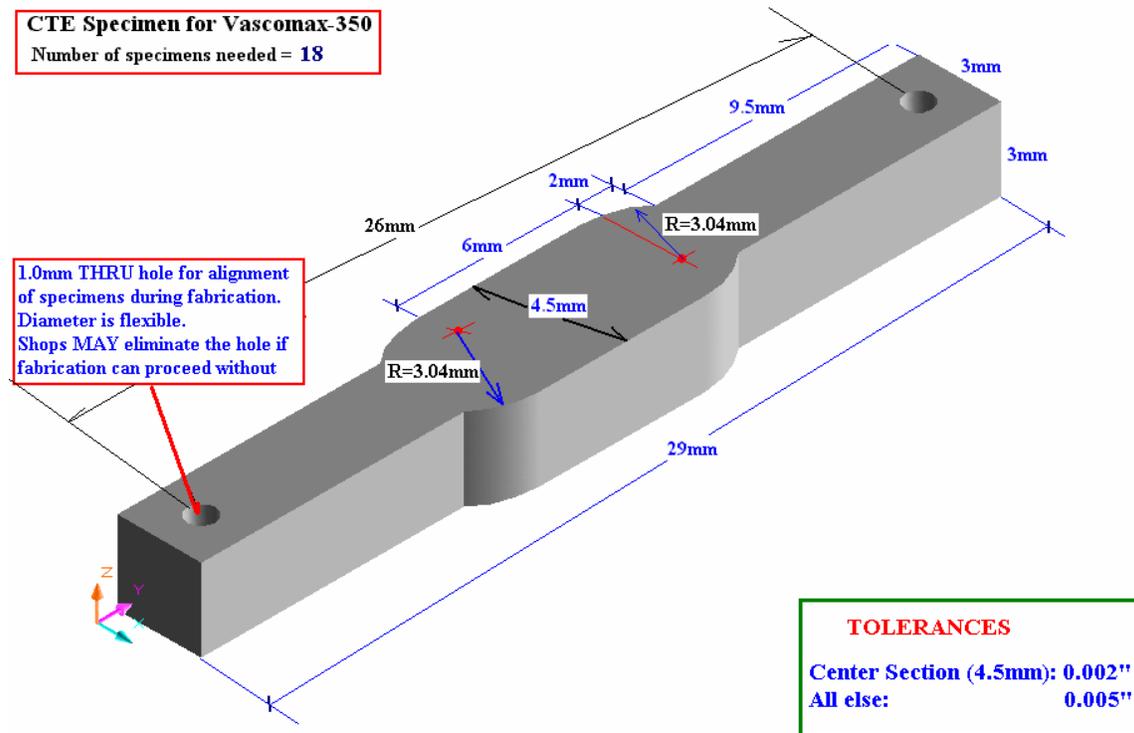


Figure 2. Ti-alloy CTE Specimen

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**Figure 3. Vascomax-350 Tensile Specimen**



**Figure 3. Vascomax-350 CTE Specimen**