

February/04/2004

Gum Metal and IG-43 Graphite Fabrication Specs

Dear Kojii, Yoshi

I am attaching the FINAL specimen description for the GUM METAL alloy and the IG-43 Graphite.

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

NOTE-1

The tensile specimen **thickness** for graphite = 2mm

The tensile specimen **thickness** for Gum Metal = 1mm

The **neck-down** section for both tensile specimens = 2mm

The corresponding central section of the CTEs = 4mm

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.

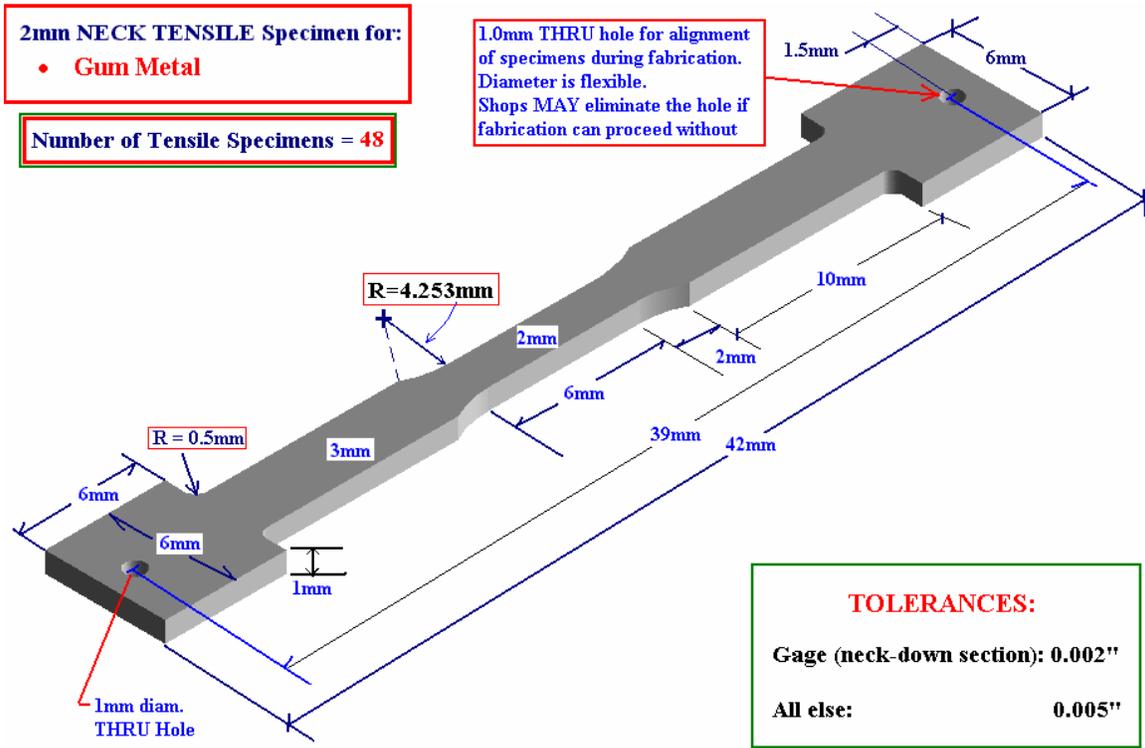


Figure 1. GUM METAL Tensile Specimen

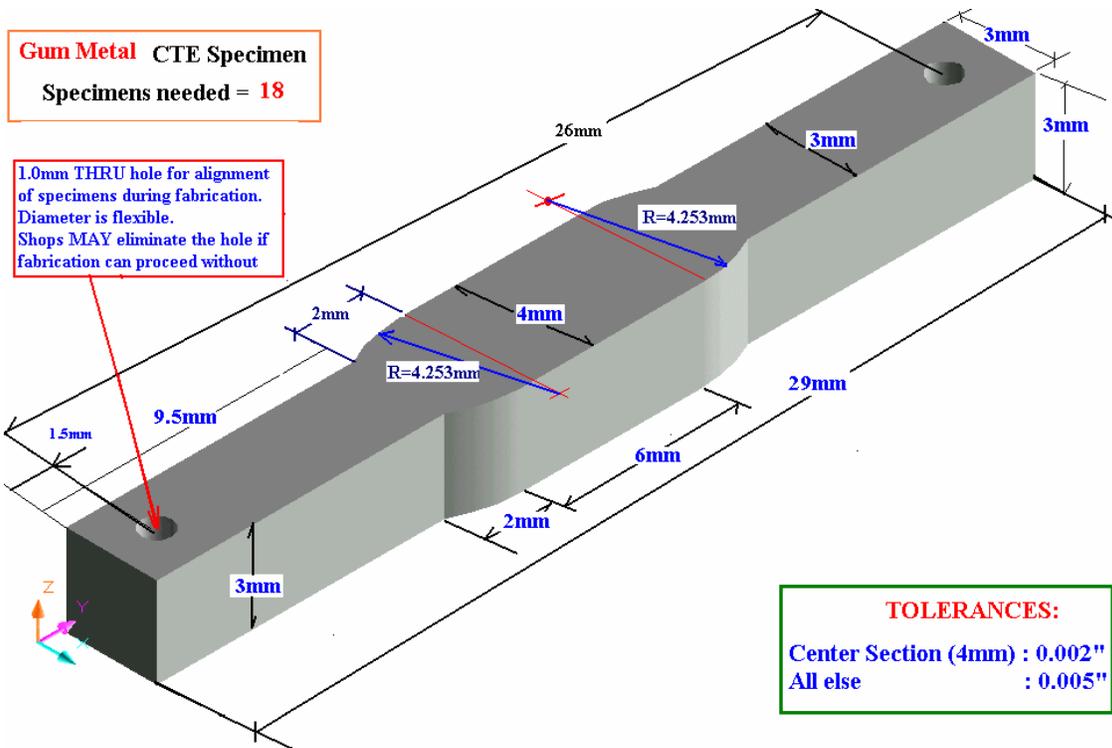


Figure 2. GUM METAL CTE Specimen

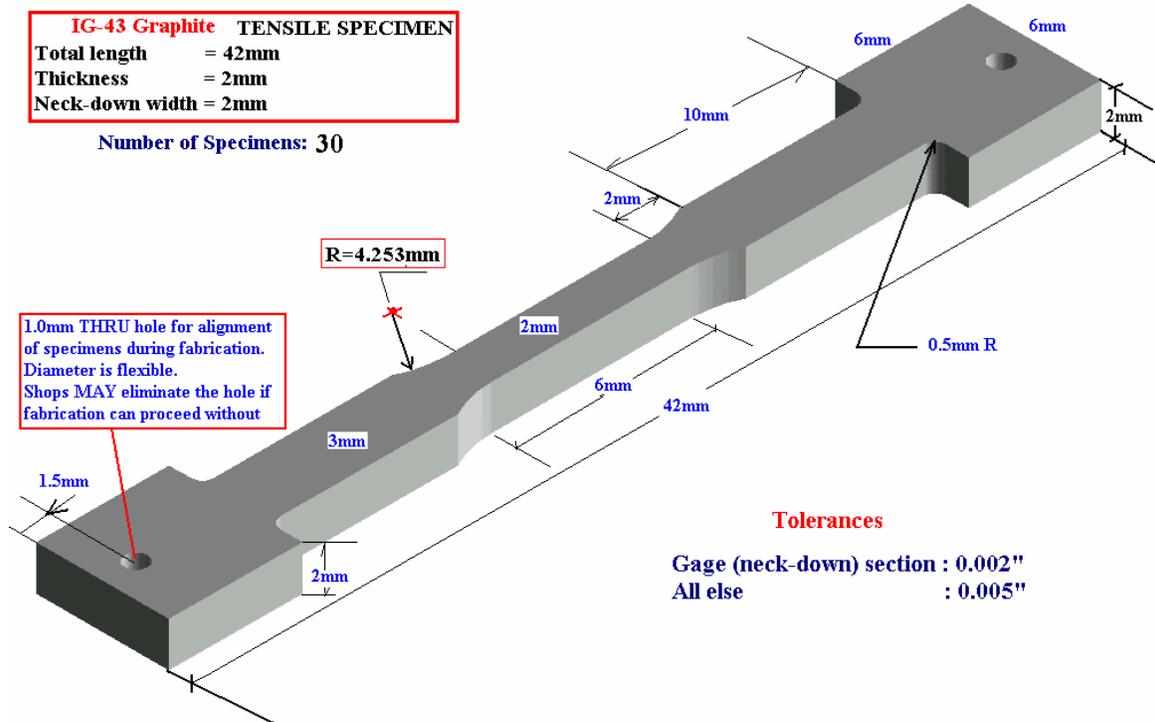


Figure 3. IG-43 Graphite Tensile Specimen

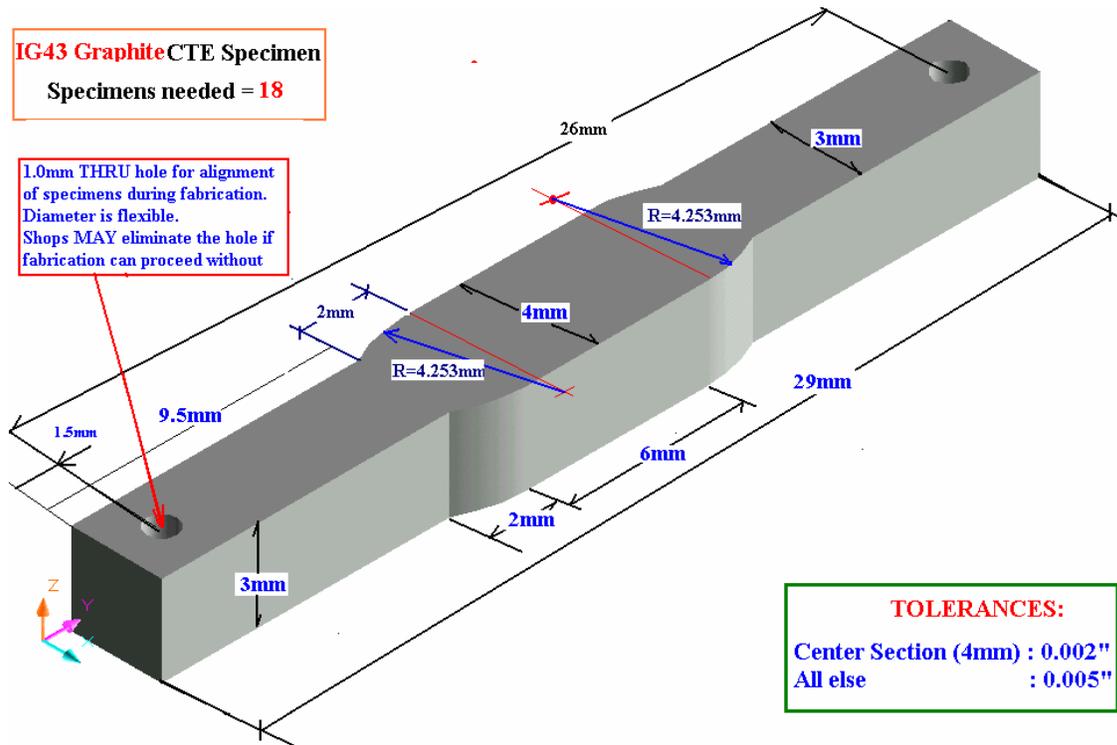


Figure 3. IG-43 Graphite CTE Specimen