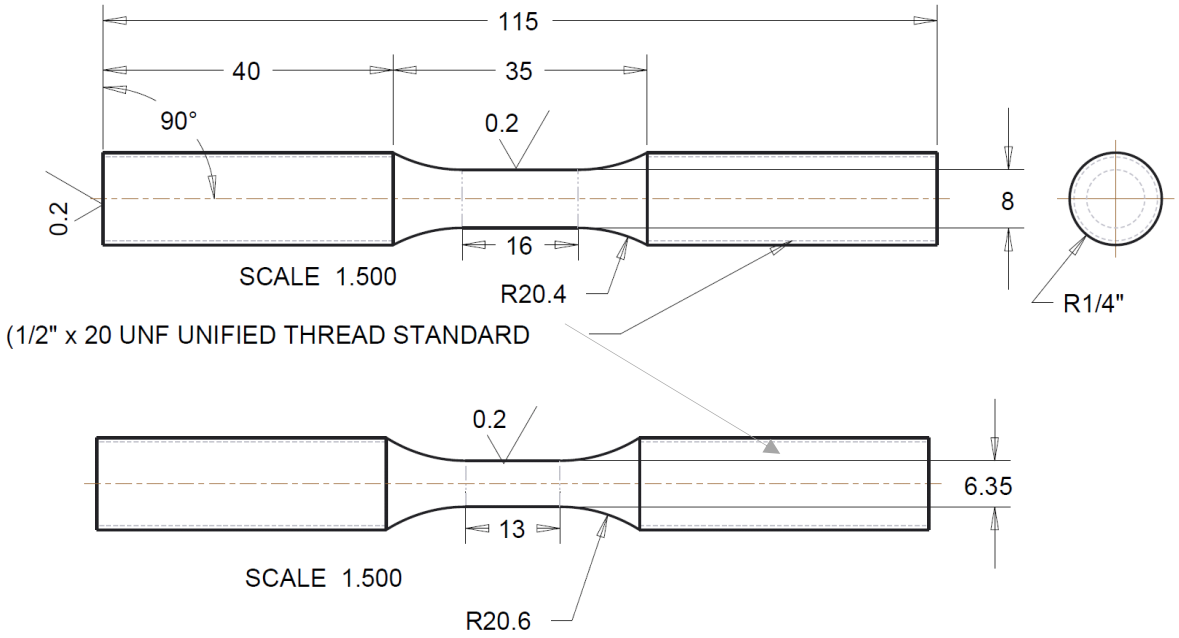
Room Temperature Fatigue Sample:

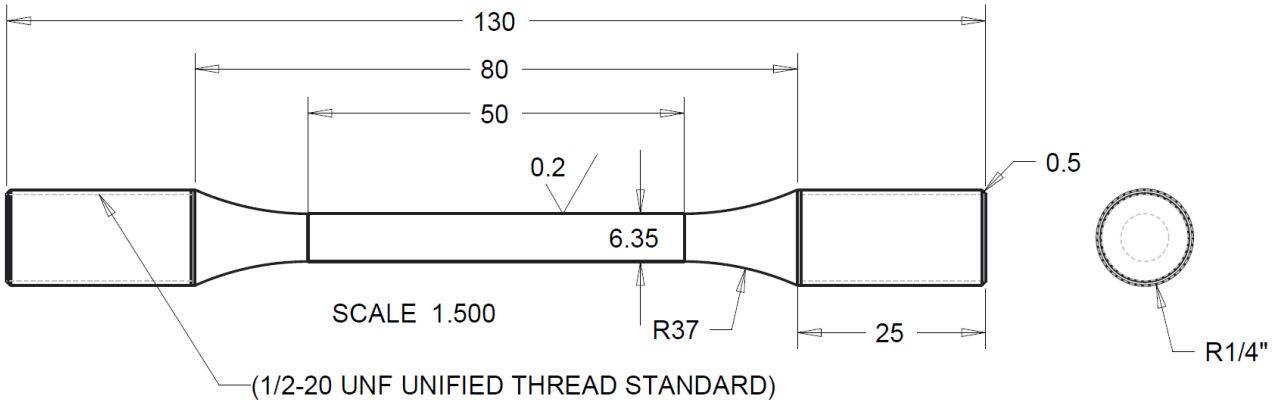
½-20 threading, ½" Rod Diameter, all other dimensions in millimeters.

Ends must be polished and normal to loading axis.



High Temperature ¼" (6mm) Gauge Threaded Tension Sample:

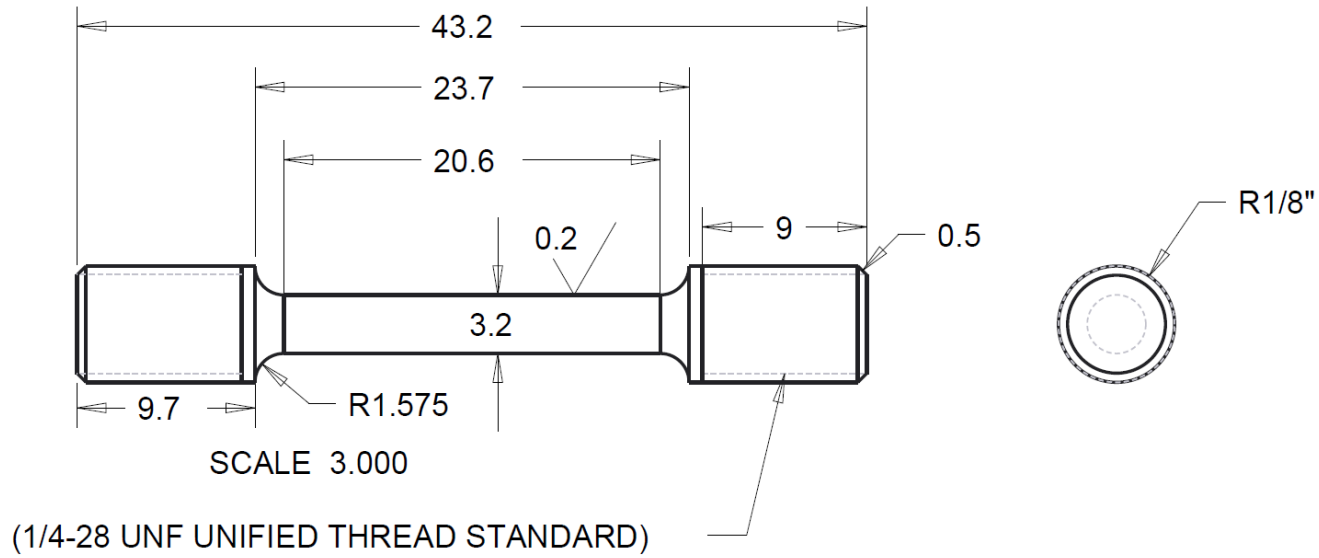
½-20 threading, ½" Rod Diameter, all other Dimensions in millimeters.



MILLIMETERS
1/4" TENSION SPECIMEN
AMBIENT/HIGH TEMPERATURE

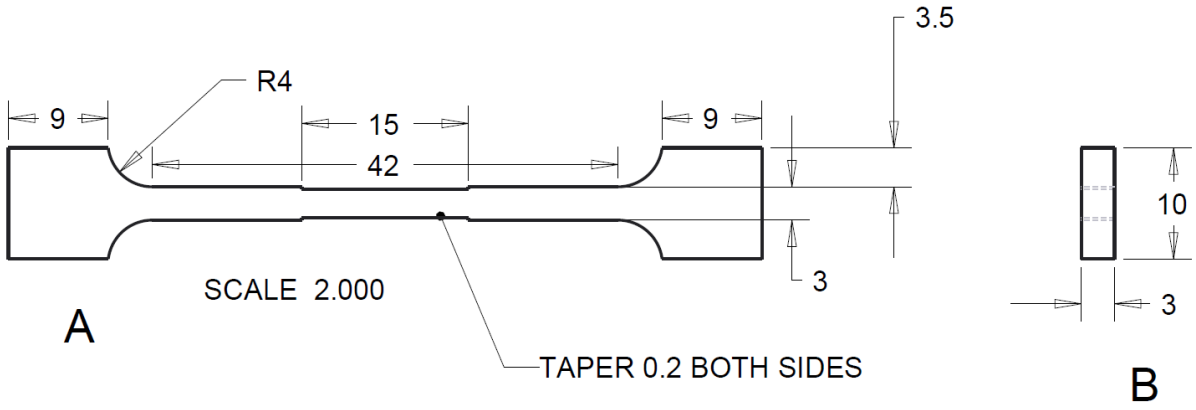
1/8” (3mm) Gauge Threaded Tension Sample:

¼-28 threading, ¼” Rod Diameter, all other Dimensions in millimeters.



MILLIMETERS
1/8" TENSION SPECIMEN
AMBIENT/HIGH TEMPERATURE

3mm Gauge Flat Tension Sample:



MILLIMETERS
POLISH ALL SURFACES

Compression Samples: Ends must be polished and normal to loading axis. Diameter/Diagonal must be no less than 3mm and no greater than 10mm, depending on the load requirements. Aspect ratio no greater than 2:1 and no less than 1:1 is allowed. Reference the table below to be sure that the sample is feasible. Any deviation from these requirements must be approved by instrument staff prior to experiment. **Note:** Shaded compression dimensions require the use of finer collimating optics, significantly reducing the scattering signal.

Diameter/Diagonal (mm)	Length Range (mm)	Max Temperature (°C)	Max Stress (MPa)
10	10-20	250	1200
10	10-20	1000	1000
8	9-16	250	1900
8	9-16	1000	1400
6	8-12	250	2600
6	8-12	1000	1400
5	8-10	250	2600
5	8-10	1000	1400
4	8	250	2600
4	8	1000	1400