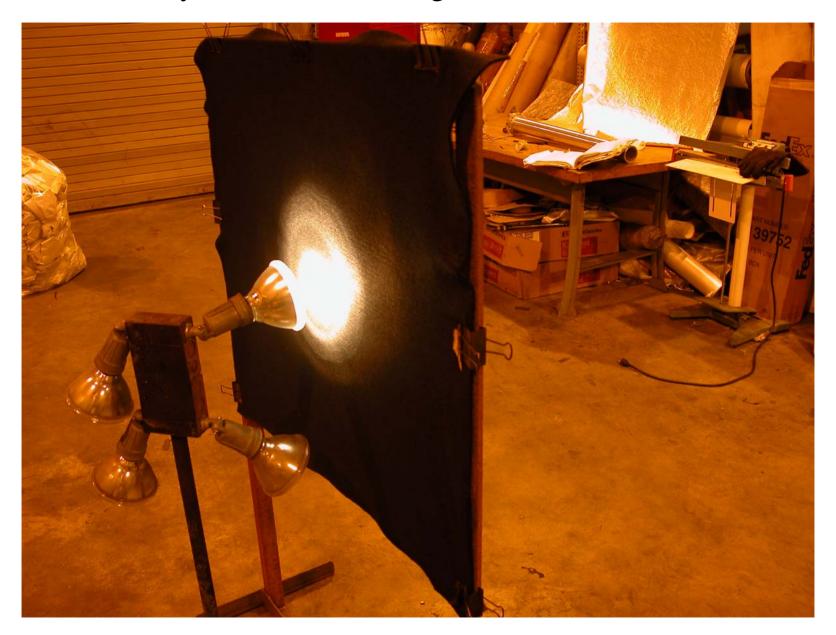
Testing of Pre-ox PAN Calibration Materials







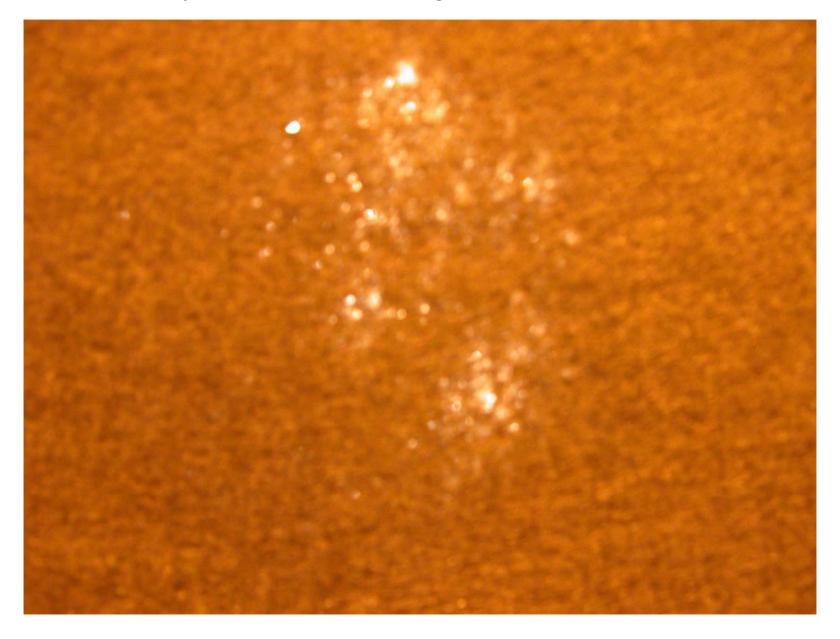
Tim Marker
FAA Technical Center



Consistency of Test Data Using "Off-the-Shelf" Materials

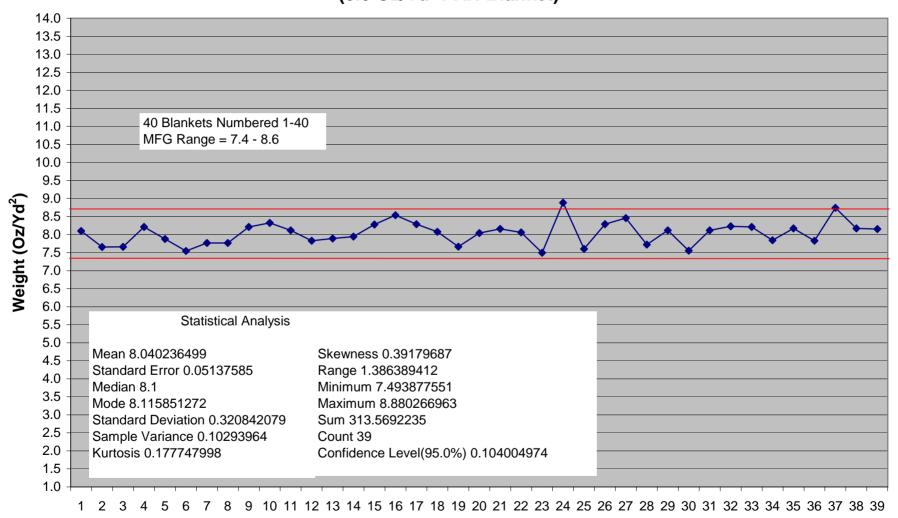






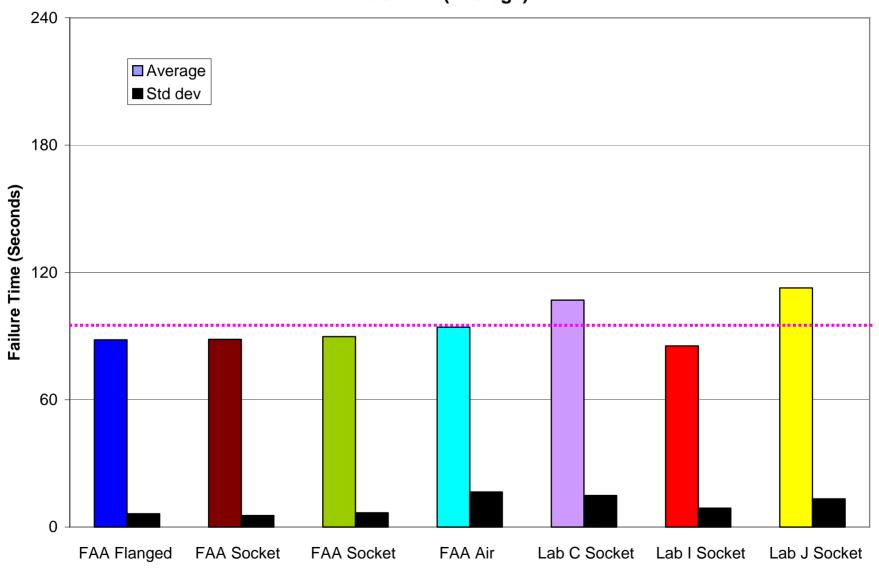


Tex Tech Style 362 (8.0 Oz/Yd² PAN Blanket)

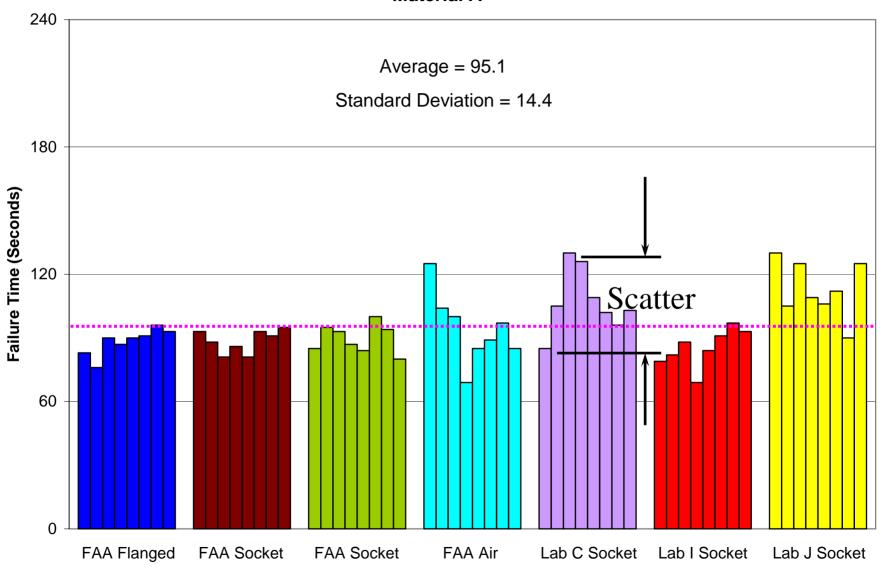


Blanket Number

Material A (Average)



Data Scatter Material A

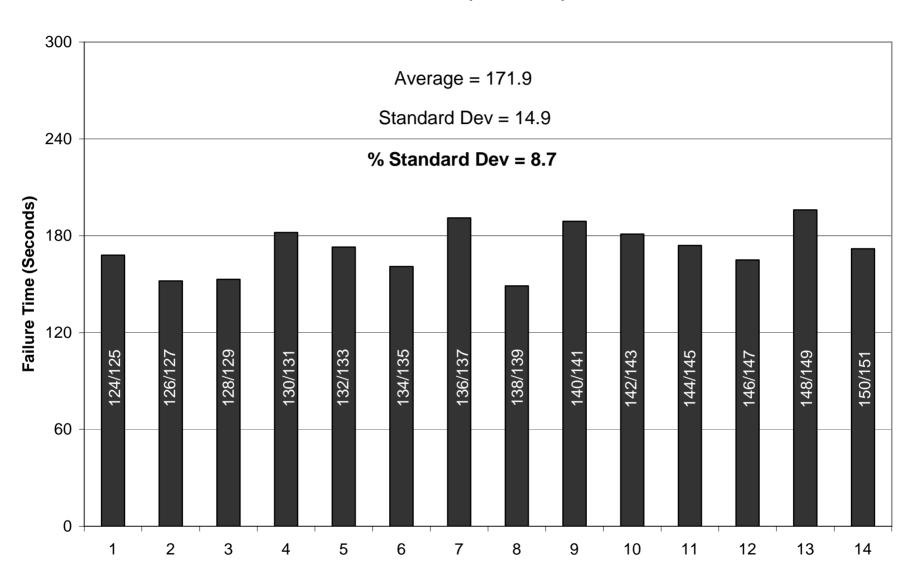


Purpose-Built Materials Supplied by TexTech

362R: Stock material, used in previous round robins

TTI produced 1 roll of 8 oz/yd² fabric using Zoltek fiber to simulate the performance of the roll produced in November of 2005. Although TTI used the same basic manufacturing methods, they did slow the machine down, and focused on good weight and thickness distribution for the roll. Each blanket was weighed and mapped for aerial density.

Material 362R (2006 6557)

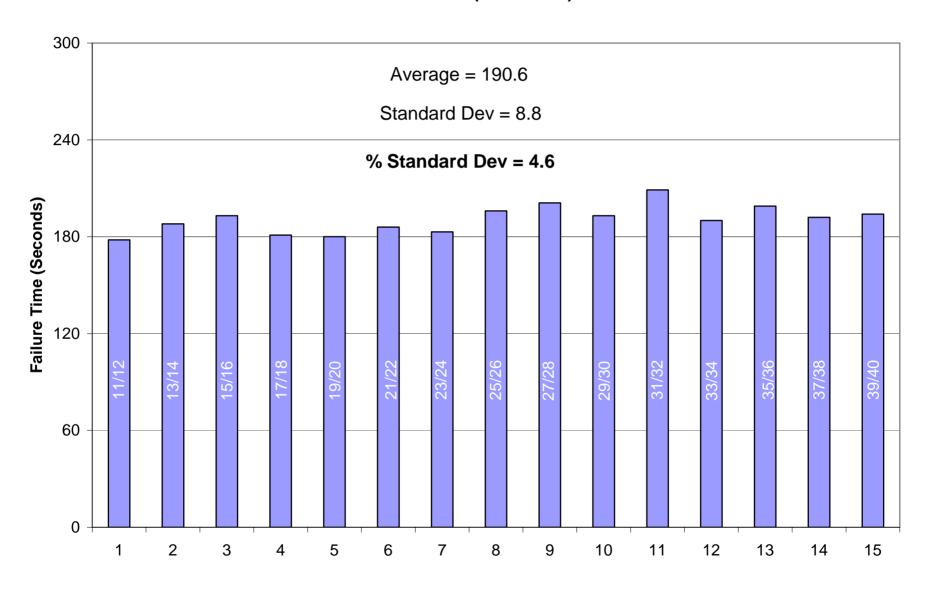


Purpose-Built Materials Supplied by TexTech

Material 8579, slightly heavier 10 oz/yd²

TTI produced a slightly heavier weight (10 oz/yd²) using the Zoltex fiber with a decrease in the fabric thickness. This produced a fabric with a higher density (g/cc) than the previous trails. The trial has increased fabric layers. Again, the draft was reduced to increase the consistency and reduce any visible windows.

Material 8579 (2006 6558)

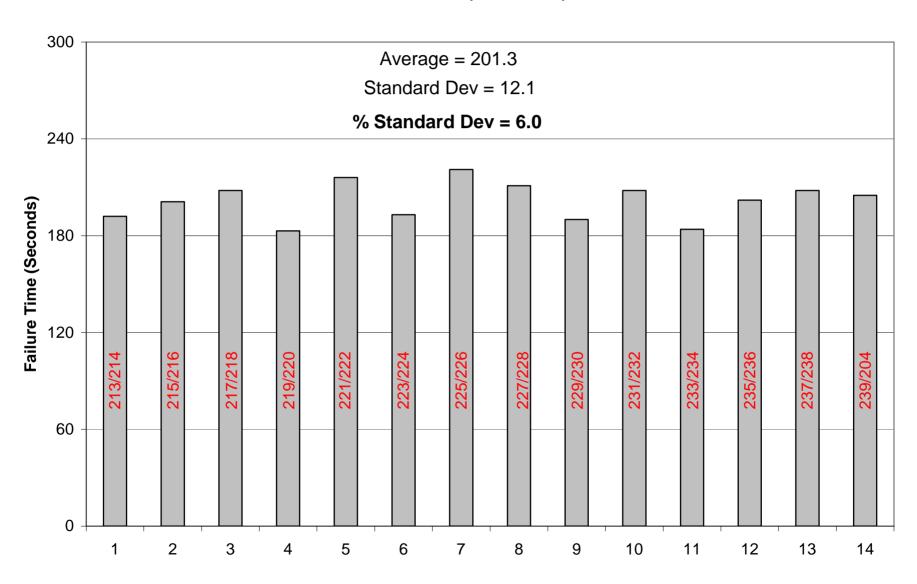


Purpose-Built Materials Supplied by TexTech

Material 8580, slightly heavier 10 oz/yd²

TTI produced a slightly heavier weight (10 oz/yd²) material using the Zoltex Fiber in order to extend the burnthrough time slightly and gain a greater understanding of the system. The trial increased the number of individent layers from 15 to approximately 23 in order to increase the overall homogeneity of the material and hopefully provide a predictable burnthrough time. The draft was also reduced to "0" if possible to increase the consistency and reduce any visible windows.

Material 8580 (2006 6559)



Interim Findings from Calibration Trials

FAA Lab, Original burner during Round Robin 8:

- % Standard Deviation for Material A = 7.1
- % Standard Deviation for Material B = 13.6

FAA Lab, Original burner during Calibration Trials:

- % Standard Deviation for Material 362R = 8.7
- % Standard Deviation for Material 8579 = 4.6
- % Standard Deviation for Material 8580 = 6.0