

International Seat Test Round Robin

Interim Results

Presented to: Materials Working Group

By: Patricia Cahill

Date: June 26, 2007



Federal Aviation
Administration



International Seat Test Round Robin

Interim Results

Test Samples:



Fire Hardened Foam 1



Fire Blocking Layer



Fire Hardened Foam 2

International Seat Test Round Robin

Interim Results

- 8 labs in the United States have completed testing and reported data:

Boeing Seattle	Accufleet
Starr Aircraft Products	Custom Products
Flame Out	Skandia
Govmark	Chestnut Ridge

- Samples have been shipped to the following organizations in Europe, Asia, and Canada:

Lantal	A. Muirhead & Sons	CTA (Spain)
CEAT	Vauth & Sohn Gmbtt & Co	Koito Industries
CAAC (China)	Sicma Aero	Siemens
Bayer	Bodycote	

International Seat Test Round Robin

Interim Results

- Since the meeting in March of this year, six additional labs reported data.
- Testing has started outside the US and we anticipate it will be completed by mid to late Summer 2007.
- Data being presented is the Average Percent Weight Loss and it's Standard Deviation for each Lab.
- Labs M to R were the most recent labs to complete testing and report data.
- Four additional labs have been added to the mix and we are awaiting data: two in Germany, one in Italy and one in France.

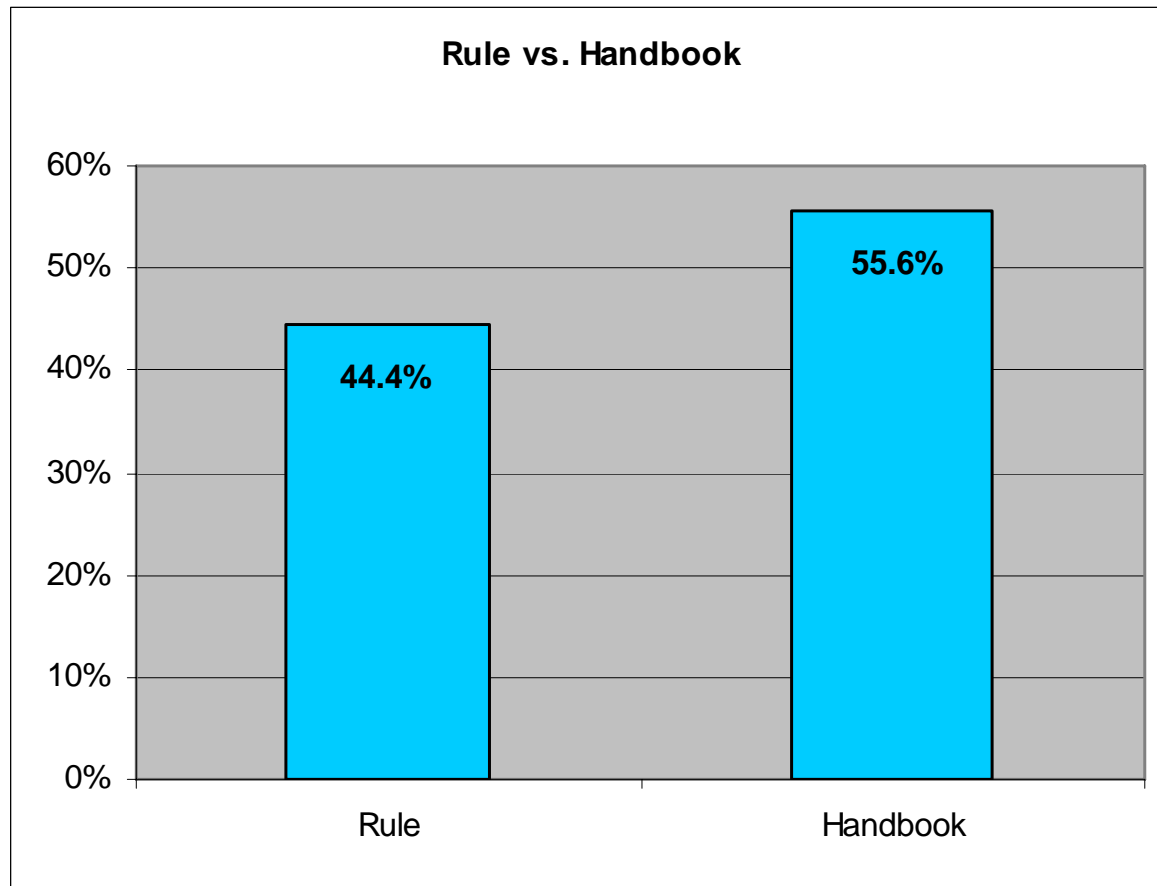


International Seat Test Round Robin

Interim Results

Comparison of Test Methods

Lab	Rule	Handbook
A		Yes
B	Yes	
C	Yes	
D	Yes	
E		Yes
F		Yes
G		Yes
H	Yes	
I	Yes	
J		Yes
K		Yes
L		Yes
M		Yes
N		Yes
O	Yes	
P	Yes	
Q		Yes
R	Yes	



International Seat Test Round Robin

Interim Results

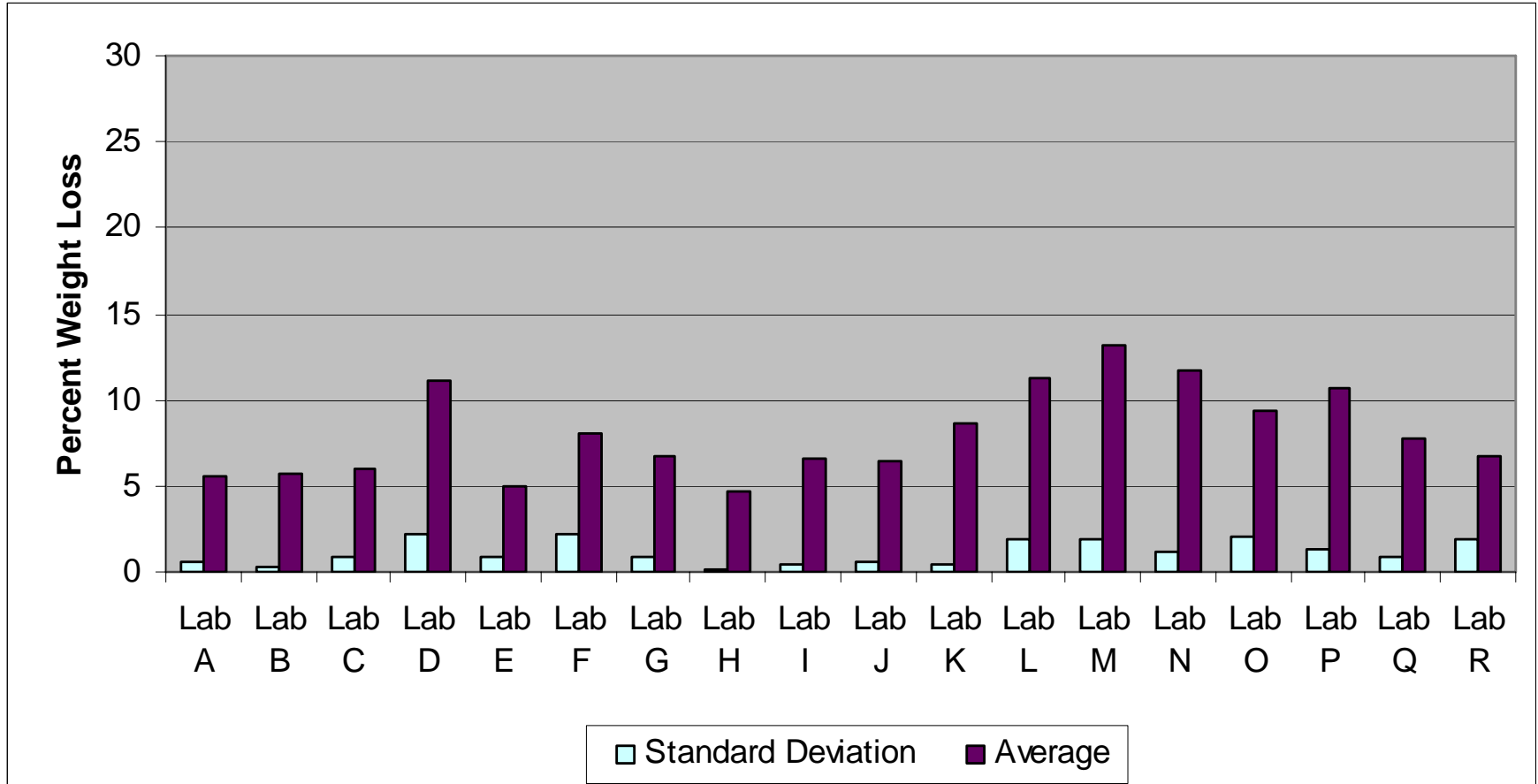
Test Method, Lab Equipment and Fuel Differences

Lab	Oil Burner Fuel	Nozzle Type	Air Stabilizer
A	JP8	80° CC 2.0 gph*	Tabs
B	Jet A	80° AR 2.25 gph	No
C	No. 2 fuel oil	80° PLP 2.25 gph	Static Disk
D	No. 2 diesel	Unknown	Unknown
E	No.2 home heating oil	80° CC 2.0 gph	Tabs and Static Disk
F	Jet A	80° CC 2.0 gph	No
G	Jet A	80° AR 2.25 gph	No
H	No. 2 home heating oil	80° CC 2.25 gph	Tabs
I	No. 2 kerosene	80° AR 2.25 gph	Static Disk
J	JP8	80° AR 2.25 gph	No
K	Jet A	80° AR 2.25 gph	Tabs
L	No. 2 diesel	60° 2.25 gph (Monarch F-20)	No
M	Jet A	80° CC 2.0 gph	Static Disk
N	Kerosene	Unknown	Tabs
O	Kerosene	80° CC 2.0 gph	Static Disk
P	No. 2 diesel	80° PLP 2.25 gph	Unknown
Q	No. 2 diesel	Monarch 80° R	Tabs
R	Jet A	80° PLP 2.25 gph	Static Disk

International Seat Test Round Robin

Interim Results

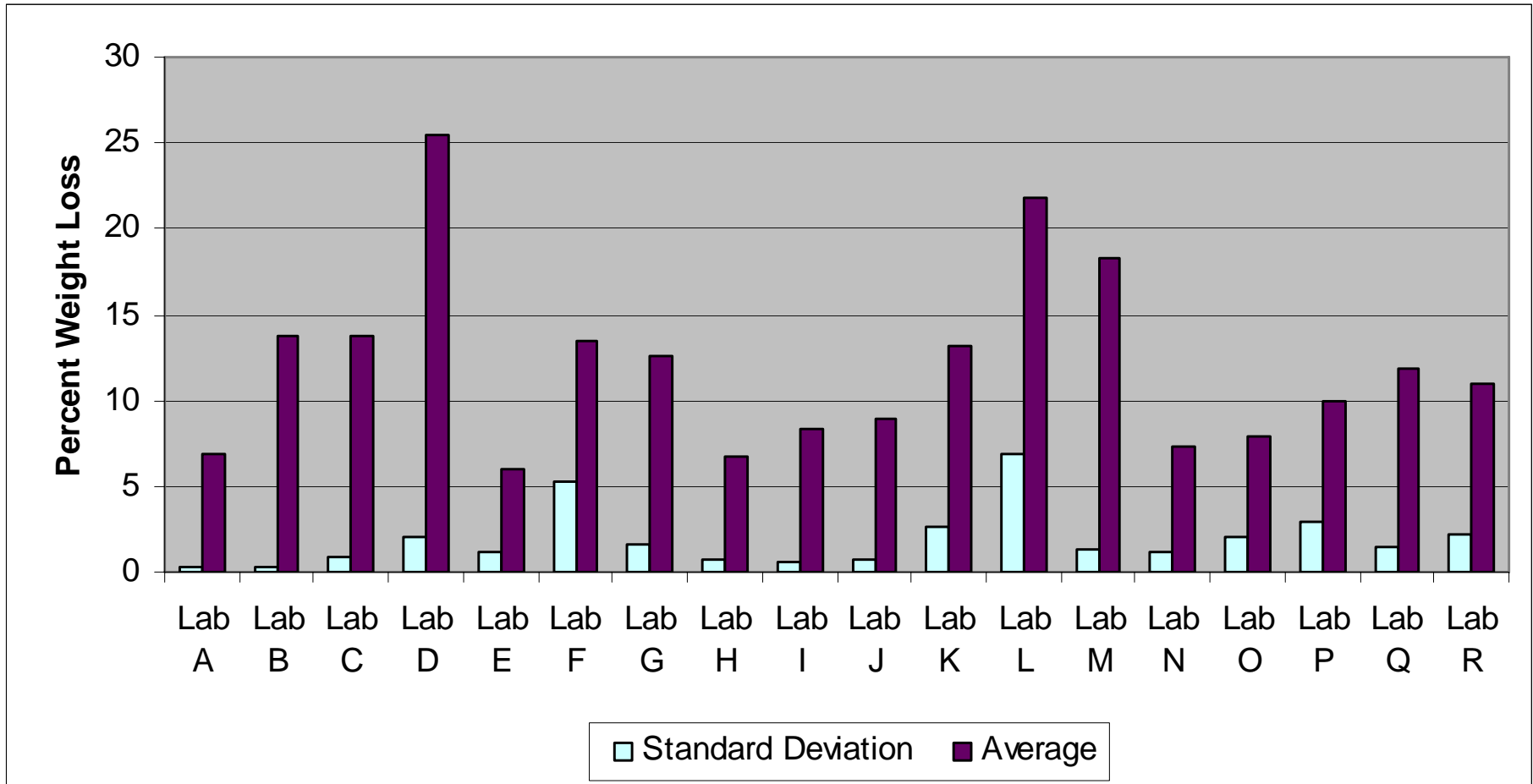
Fire Hardened Foam 1



International Seat Test Round Robin

Interim Results

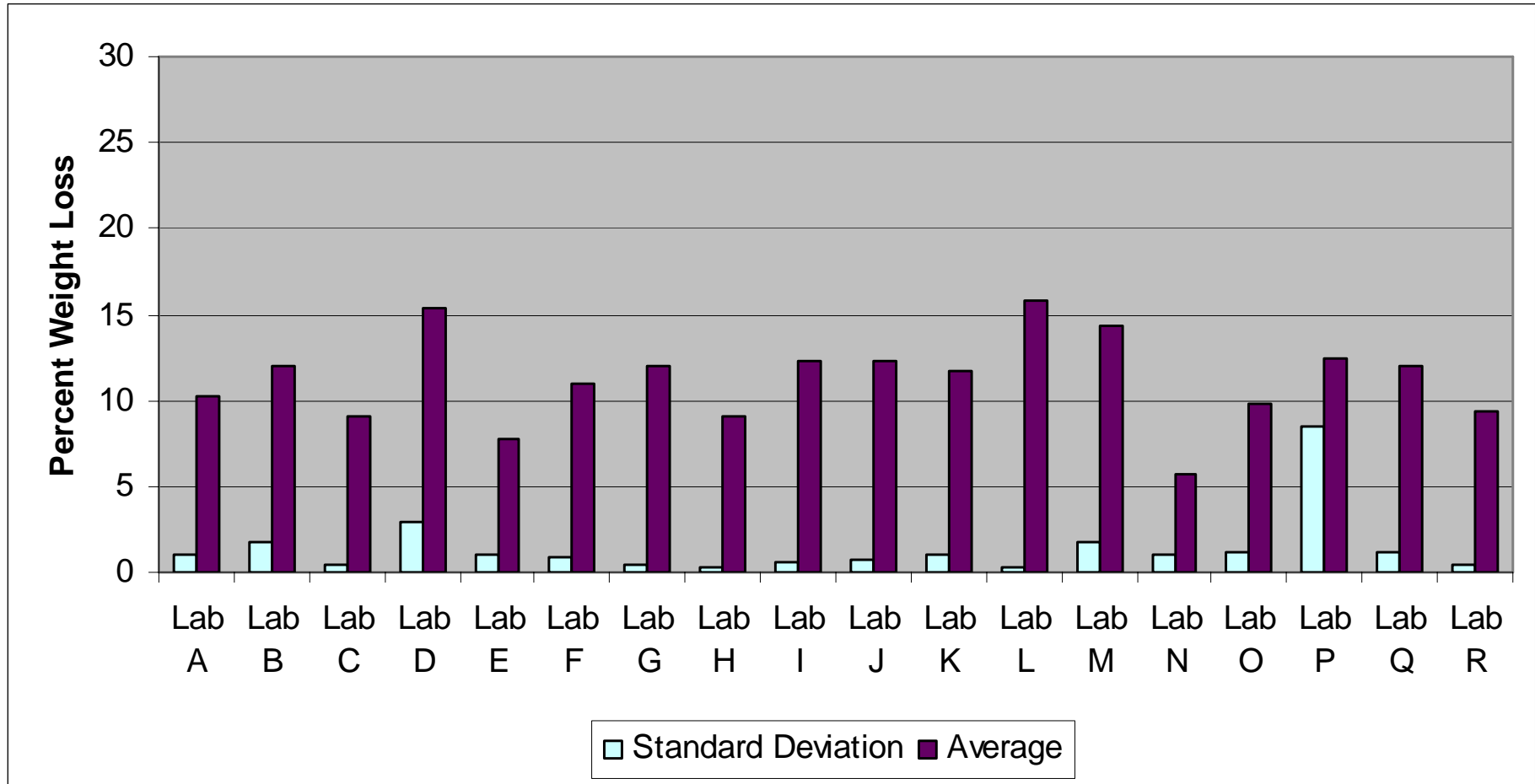
Fire Blocking Layer



International Seat Test Round Robin

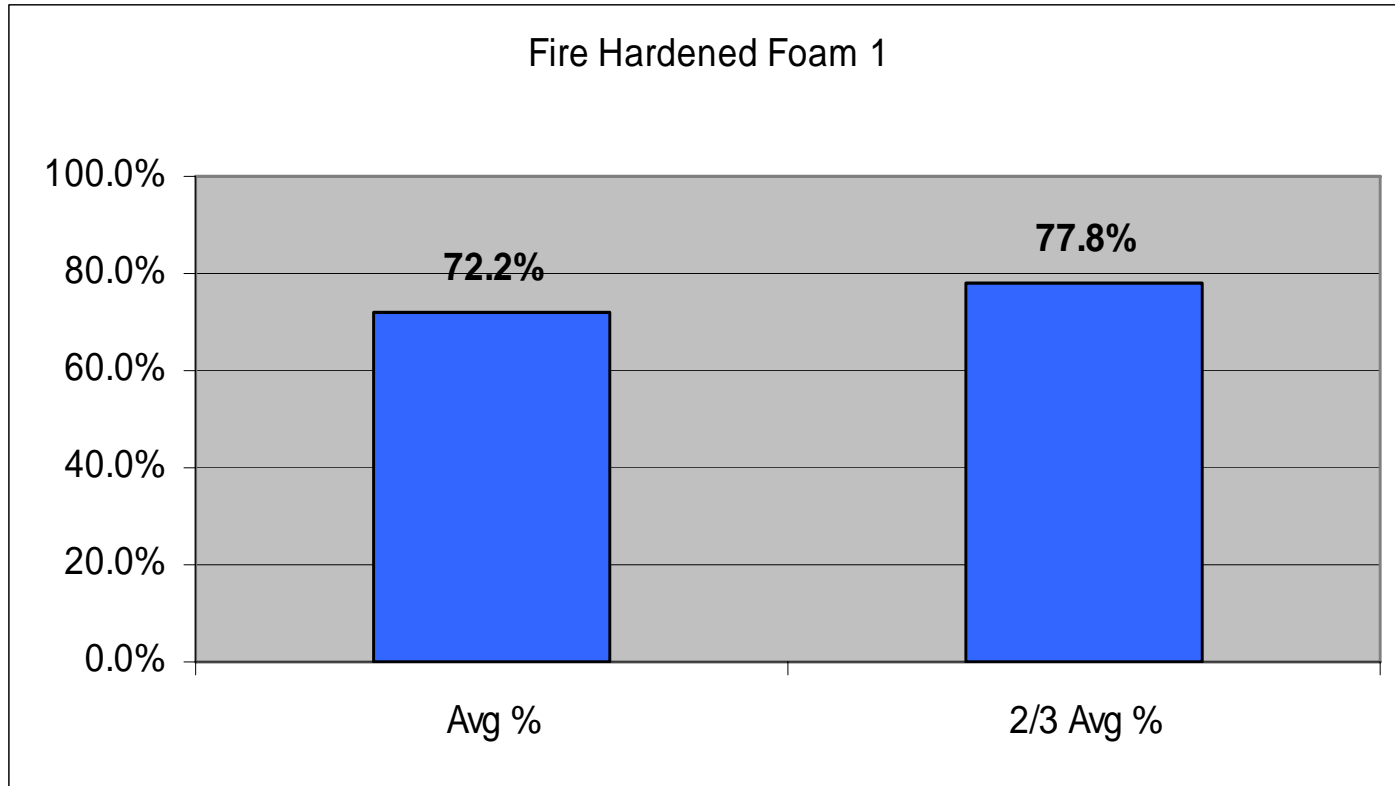
Interim Results

Fire Hardened Foam 2



International Seat Test Round Robin

Interim Results

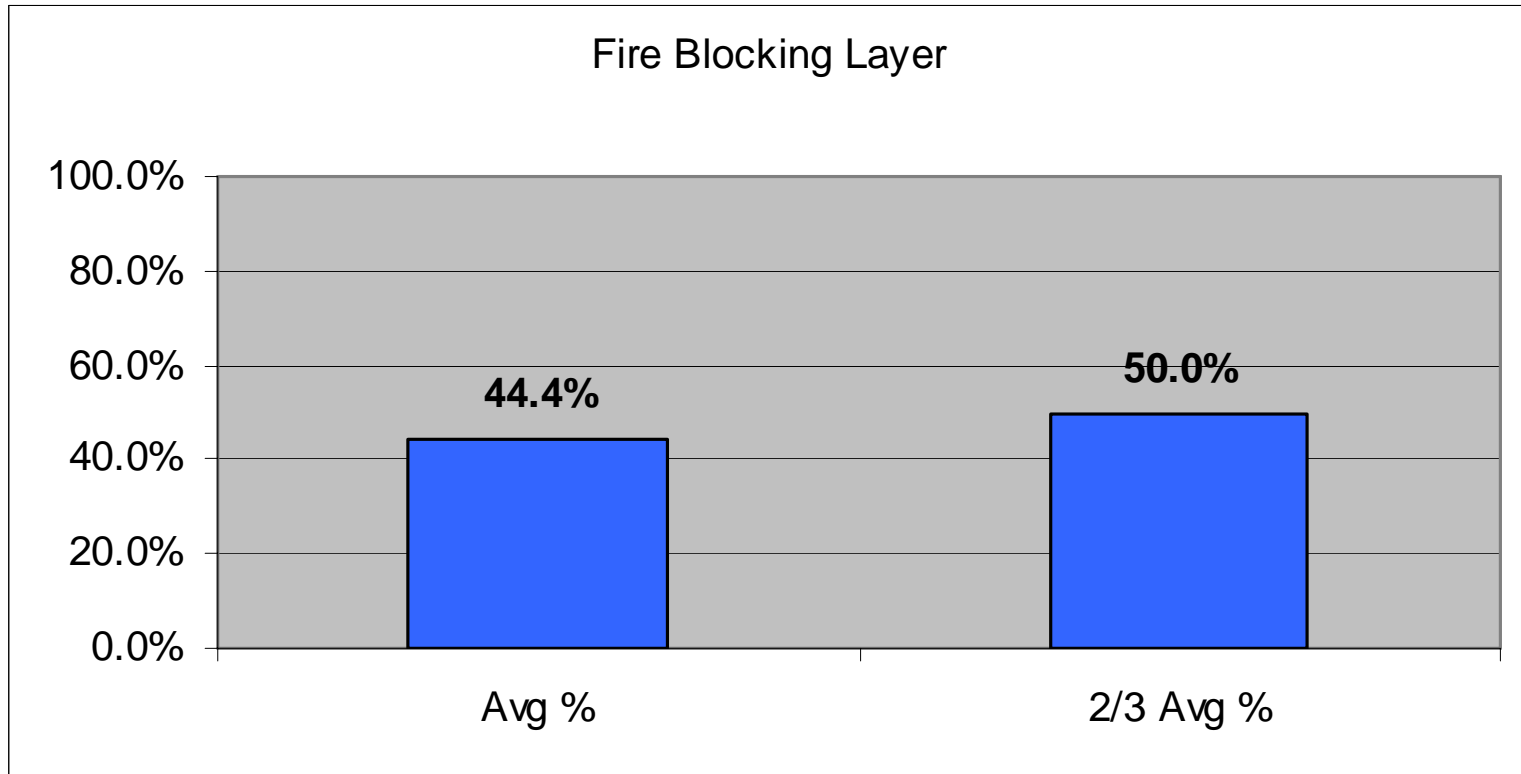


Comparison of Results:

- Average Percentage Weight Loss (Avg %)
- Weight Loss of Two-Thirds of the total number of specimens tested. (2/3 Avg %)

International Seat Test Round Robin

Interim Results

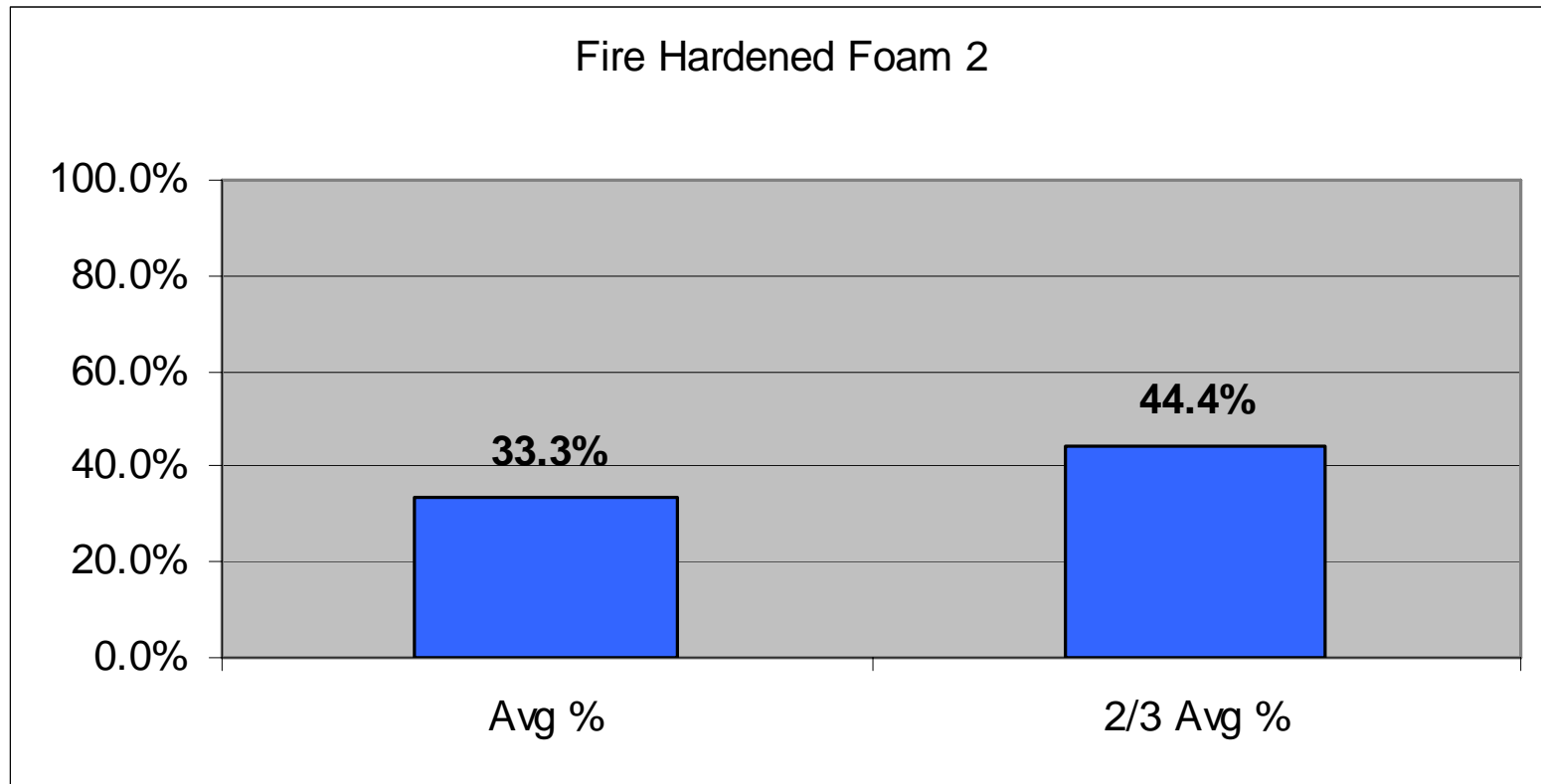


Comparison of Results:

- Average Percentage Weight Loss (Avg %)
- Weight Loss of Two-Thirds of the total number of specimens tested. (2/3 Avg %)

International Seat Test Round Robin

Interim Results



Comparison of Results:

- Average Percentage Weight Loss (Avg %)
- Weight Loss of Two-Thirds of the total number of specimens tested. (2/3 Avg %)

International Seat Test Round Robin

Interim Results

- For Labs M, N, and Q it appears that repeatability within each lab is consistent.
- All data will be reported, tabulated, and presented at the Triennial Conference in November 2007 in Atlantic City.

