



The University of Michigan

MICHIGAN MEMORIAL – PHOENIX PROJECT
PHOENIX MEMORIAL LABORATORY FORD NUCLEAR REACTOR
ANN ARBOR, MICHIGAN 48109-2100

Certificate of Compliance

This is to certify that the TALBOR® samples described below was subjected to the test(s) described below at the Nuclear Reactor Laboratory, University of Michigan. All test were completed in accordance with the Nuclear Reactor Laboratory's *Quality Assurance Program for Materials Testing*, Revision 11 (7 October 1994), which conforms to the requirements of 10CCFR50 Appendix B. Testing services are provided for Talon Composites.

Customer: Talon Composites
25677 Paseo De La Paz
San Juan Capistrano, CA 92675
Phone: (949) 248-0005

Coupon Material: Talbor

Coupon Identification: ID numbers 1 through 15

Neutron Attenuation

Neutron attenuation was measured in accordance with Nuclear Reactor Laboratory procedure NRL-007, *Neutron Attenuation*, Revision 4, 20 October 1995. Attenuation measurements were made at the center of each specimen with the sample orientated such that the ID number was in the upper left corner.

Equipment:

Ford Nuclear Reactor:	2 MWth power
Neutron Spectrometer:	
Crystal:	Dual copper
Neutron energy:	0.06 eV
Beam Diameter:	3/8 in
Counting time:	60 sec
Boral Standard:	007159-1
Certified Attenuation	0.8953 ± 0.0003
Boron Loading of Standard:	$0.0167 \text{ gm B}^{10}/\text{cm}^2$

Results:

ID	Attenuation	σ_A
1	0.8892	0.0005
2	0.8897	0.0005
3	0.8953	0.0005
4	0.8864	0.0005
5	0.8933	0.0005
6	0.8911	0.0005
7	0.8940	0.0005
8	0.8958	0.0005
9	0.8969	0.0005
10	0.8860	0.0005
11	0.8945	0.0005
12	0.8899	0.0005
13	0.8854	0.0005
14	0.8901	0.0005
15	0.8879	0.0005

/s/

21/NOV/02

Christopher W. Becker, Nuclear Reactor Laboratory Manger

Phoenix Memorial Laboratory – Ford Nuclear Reactor

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Date