

Received:09/05/2017	Completed:09/13/2017	Letter: T	AM	P.O.#: 12818	Test Report #:	3-21079-0-
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Client's Identification	Lot No.: P90285. Date of Mfg.: 8/30/2017. Style: Rigid material-part assembly. Composition: TPU + adhesive + TPO material traction surface. Thickness: ~1". (see continuation)
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Tested For: Adam Trenkamp Skydex Technologies Inc 12508 E. Briarwood Ave Suite 1F Centennial, CO 80112	Key Test: BSS 7239 Gas Toxicity 1590 Tel: 1-(303)-952-8923 Ext: Fax: 1-()- -
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CLIENT'S IDENTIFICATIN (continuation):

Product End Use: Military vehicle flooring. [Black side exosed to test heat source]

Category: Gas Toxicity Specifier: Boeing NTR 04/16 PC: 24H /dl
LE 1988; V 3/17

APPROXIMATE THICKNESS OF MATERIAL (as measured by Govmark): 1.175 inches

APPROXIMATE WEIGHT OF SPECIMEN (as weighed by Govmark): 28.45 grams

TEST PERFORMED: Boeing Test Method BSS 7239 Rev-A - Analysis of the products of combustion using the NBS smoke chamber and gas detector tubes to determine presence of specific products of combustion

BRIEF DESCRIPTION OF TEST: The basic procedure is described by BSS 7238 - Boeing Specification Support Standard, Test Method for Smoke Generation by Materials on Combustion

Two separate tests are conducted on multiple specimens. In one test the face of each specimen is exposed to a radiant heat source of 2.5 W/cm² (non flaming mode). In a second test completely new specimens are subjected to both the radiant heat source and 6 small igniting flames (flaming mode).

Analytical techniques are gas specific and as follows:

I. Hydrogen Cyanide and Hydrogen Chloride:

Four minutes after the start of the test the combustion product is collected in a gas detector tube, used in combination with a Draeger "Accuro" Gas Extraction Pump, Model 6400000. As the combustion product is drawn through the detector tube, a reagent inside the tube stains and indicates the concentration of a specific gas produced during combustion.

II. Carbon Monoxide, Sulphur Dioxide and Nitrous Oxide(s):

At the four minute mark, the amounts (ppm) of these non-reactive gases are determined using a Testo 350 Flue Gas Analyzer taking values at least once per second. When values have stabilized, the data is recorded.

III. Hydrogen Fluoride:

Hydrogen Fluoride is assessed using Potentiometry. At the four minute mark, 1000 ml of the chamber gases are drawn at a maximum rate of 200 ml per minute into an impinger bottle containing the absorption solution. The contents of the impinger bottle are then transferred to a measuring flask and renormalized to 100ml with distilled water and an Ionic Strength Adjuster (ISA). Concentrations are read by instrumentation. Values are recorded.

-- See Page 2 for "Conclusion". --

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RESULTS and ACCEPTANCE CRITERIA:

Flaming Mode at 4 Minutes				Suggested Maximum Limits
Combustion By Product	Specimen 1 (ppm)	Specimen 2 (ppm)	Average (ppm)	at 4 Minutes (ppm)
CO Carbon Monoxide	591.0	946.4	768.7	3500
HF Hydrogen Fluoride	0.78	0.68	0.73	200
HCl Hydrogen Chloride	LT 1.0	LT 1.0	LT 1.0	500
HCN Hydrogen Cyanide	LT 0.5	LT 0.5	LT 0.5	150
SO/2 Sulphur Dioxide	0.0	0.0	0.0	100
NO, NO/2 Nitrous Gases	95.3	84.8	90.1	100

CONCLUSION #1 (FLAMING MODE): The above results for specimens tested in the Flaming Mode:

- Do not exceed the Suggested Maximum Limits
 Exceed the Suggested Maximum Limits

Non Flaming Mode at 4 Minutes				Suggested Maximum Limits
Combustion By Product	Specimen 1 (ppm)	Specimen 2 (ppm)	Average (ppm)	at 4 Minutes (ppm)
CO Carbon Monoxide	445.0	330.0	387.5	3500
HF Hydrogen Fluoride	0.60	0.54	0.57	200
HCl Hydrogen Chloride	LT 1.0	LT 1.0	LT 1.0	500
HCN Hydrogen Cyanide	LT 0.5	LT 0.5	LT 0.5	150
SO/2 Sulphur Dioxide	0.0	0.0	0.0	100
NO, NO/2 Nitrous Gases	8.8	7.2	8.0	100

CONCLUSION #2 (NON-FLAMING MODE): The above results for specimens tested in the Non-Flaming Mode:

- Do not exceed the Suggested Maximum Limits
 Exceed the Suggested Maximum Limits

ABBREVIATIONS WHICH MAY BE USED: M = Minimum detectable concentration
 LT = Less Than

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REMARKS: None.

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified above.



Test Technician: Ajaz Mehdi



 AUTHORIZED SIGNATURE
 GOVMARK
 /pm/mo

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Douglas W. Lipp

SEP 14 2017