

Lab. Ref. No.:	FST25113 Iss 1	S.O No.:	L13430 Page 1 of 1
Material:	SATTO (SA20-21)		
Customer:	SPECIALIST AVIATION	P.O. No.:	11849
Date of Test:	27/02/2014	Rel. Note No.:	20237
Specimen Conditioning:	24hr. min. at 22.5 +/- 1.5°C and 50 +/- 5% RH		

TEST METHOD / SPECIFICATION	TEST RESULT			MEAN	CRITERIA (max. average)	PASS/FAIL
	1	2	3			
FLAMMABILITY						
F1 CS 25.853(a) Amdt.14 App.F Pt.I(a)(1)(i) & (b)(4) 60s. Vert.	Afterflame (sec)				15sec.	
	Burn Length (in)				6in.	
	Drip Exting Time (sec)				3sec.	
F2 CS 25.853(a) Amdt.14 App.F Pt.I(a)(1)(ii) & (b)(4) 12s. Vert.	Afterflame (sec)				15sec.	
	Burn Length (in)				8in.	
	Drip Exting Time (sec)				5sec.	
F3 CS 25.853(a) Amdt.14 App.F Pt.I(a)(1)(iv) & (b)(5) 15s. Horiz.	Burn Rate (in/min)				2.5in/min.	
F4 CS 25.853(a) Amdt.14 App.F Pt.I(a)(1)(v) & (b)(5) 15s Horiz.	Burn Rate (in/min)				4.0in/min.	
F5 CS 25.855(d) Amdt.14 App.F Pt.I(a)(2)(ii) & (b)(6) 30sec/45°	Afterflame (sec)				15sec.	
	Afterglow (sec)				10sec.	
	Flame Penetration				NONE	
F6 CS 25.1713(c) Amdt.14 App.F Pt.I(a)(3) (b)(7) 30sec/60°	Afterflame (sec)				30sec.	
	Burn Length (in)				3in.	
	Drip Exting Time (sec)				3sec.	
HEAT RELEASE *						
F7 CS 25.853(d) Amdt 14 App.F Pt.IV (e) & (g)	2 min. Total HR (kWmin/m ²)				65(kWmin/m ²)	
	Peak HR (kW/m ²)				65(kW/m ²)	
SMOKE EMISSION *						
F8 CS 25.853(d) Amdt 14 App.F Pt.V(a) & (b)	Ds Max in 4 min. (Flaming)				200	
F9 ABD0031 IssF ABD0031 Iss F	Ds Max in 4 min. (Flaming)	206.55	186.16	128.39	173.70	PASS
	(Non-Flaming)				200	
TOXIC GAS EMISSION (ppm)						
F10 ABD0031 Iss F	CO (Flaming)	716	722	710	716	PASS
	CO (Non-Flaming)				1000	
	HCN (Flaming)	5	7		6	
	HCN (Non-Flaming)				150	
	HF (Flaming)	<2	<2		100	
	HF (Non-Flaming)				100	
	HCl (Flaming)	<2	<2		150	
	HCl (Non-Flaming)				100	
	SO ₂ (Flaming)	<1	<1		100	
	SO ₂ (Non-Flaming)				100	
	NO _x (Flaming)	3	2		3	
	NO _x (Non-Flaming)				100	



* SEE ATTACHED GRAPHS FILENAMES: FST25113F.REP
The results detailed above relate only to the items tested.

COMMENTS

Flammability: Flame Temp. (Min. 843C (1550F)): °C
Smoke Emission: Heat Flux (25 +/- 0.5kW/m²): 24.9

Heat Release: Calibration Factor: 0.2934 kW/mV
Heat Flux (35 +/- 0.5kW/m²):

TESTED BY:


N. Orpwood
Test Engineer


APPROVED BY:


J. Barnes
Laboratory Manager


DATE: 27 February 2014

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UNCERTAINTY OF MEASUREMENT

Flammability - Afterflame/Drip Exting Time +/- 0.7sec, Burnlength +/- 0.1in, Burn Rate +/- 0.1in/min Heat Release - +/- 1.5% Smoke Emission - +/- 4% Toxic Gas Emission - +/- 15%



Smoke Density Chamber Test Report

Report filename C:\SMOKEBOX\DATA\Astme662\fst25113f.rep
 Standard ASTM E 662
 Laboratory AIM Composites Ltd Test Laboratory
 Date of report 27 February 2014

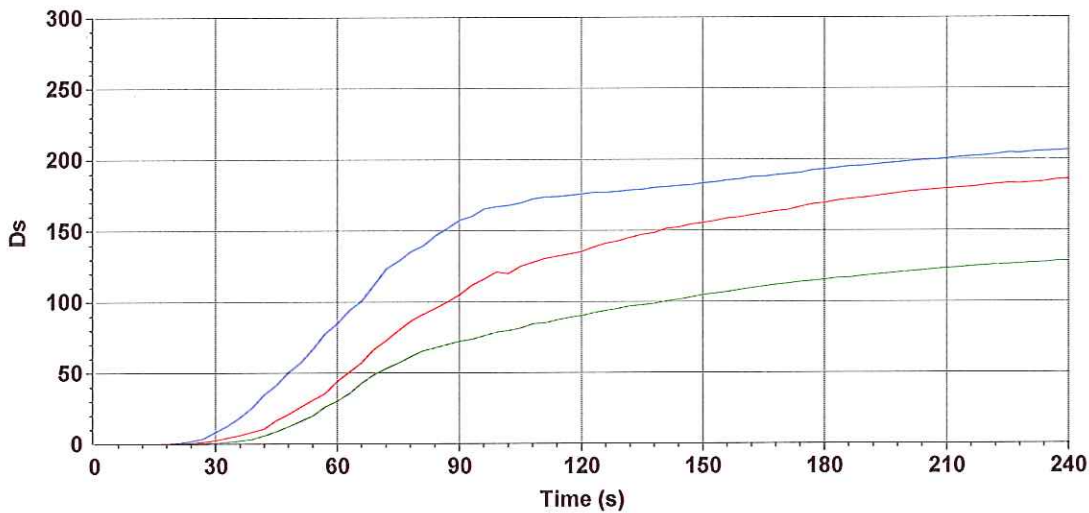
Specimen Information

Specimen description FST25113 SATTO (SA20-21)
 Conditioned? Yes
 Conditioning temperature 23°C
 Conditioning RH 50%

Test Results

Flaming tests

Test	Dm (-)	t(Dm) (s)	Duration (s)
Mean	173.7	239.7	240
F 1	206.55	240	240
F 2	186.16	240	240
F 3	128.39	239	240



The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.