

You are reminded not to ship the product identified under this PCN until released by Semtech Corporation. A copy of their specific PCNs have been included with this notification.

Please take action pursuant to your customer agreements and JEDEC 46.



PRODUCT / PROCESS CHANGE NOTIFICATION

PCN-000367

Date: 04/11/2016

P1/5

<input type="checkbox"/>	Semtech Corporation, 200 Flynn Road, Camarillo CA 93012
<input type="checkbox"/>	Semtech Canada Corporation, 4281 Harvester Road, Burlington, Ontario L7L 5M4 Canada
<input type="checkbox"/>	Semtech Irvine, 5141 California Ave., Suite 100, Irvine CA 92617
<input type="checkbox"/>	Semtech Neuchatel Sarl, Route des Gouttes d'Or 40, CH-2000 Neuchatel Switzerland
<input type="checkbox"/>	Nanotech Semiconductor, Semtech Corporation, 2 West Point Court, Bristol, United Kingdom, BS32 4PY
<input type="checkbox"/>	Semtech Corpus Christi SA de CV, Carretera Matamorros Edificio 7, Reynosa, Tamaulipas, Mexico 88780
<input checked="" type="checkbox"/>	Semtech Triune, 1101 Resource Drive, Suite 121, Plano TX 75074
<input type="checkbox"/>	

Change Details

Part Number(s) Affected: <ul style="list-style-type: none"> • SC4215I / SC4215H / SC4215A • SC4216 / SC4216H • SC4211 / SX1241 / SC2620 • SC4525A / SC4525C / SC4524C / • SC4525B / SC4525D / SC4525E / SC4525F • SC4519H / SC4519S / SC4518 • SC4521 / SC2595 / SC2596 / SC1592 • SC1211S / SC4250L 	Customer Part Number(s) Affected: <input checked="" type="checkbox"/> N/A <ul style="list-style-type: none"> •
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Description, Purpose and Effect of Change:

- 1) Ablestik/Henkel produces ABP2600AT HT epoxy. Their supplier discontinued one of the raw materials in the formulation. Ablestik has issued an EOL notification to all of their customers. Semtech's supplier, Cirtek is affected. Product assembled at Cirtek are identified and impacted by this change.
- 2) The replacement epoxy for the 2600AT epoxy for SOIC-EP is ABP8060T. It passed qualification testing at Cirtek and Semtech. The thermal performance of ABP8060T is equivalent to the 2600AT epoxy.
- 3) Semtech has completed reliability testing of this change and it meets Semtech's reliability requirements and meets JEDEC guidelines.
- 4) The short implementation time is due to the limited and short supply of existing Ablestik 2600AT epoxy.

Change Classification	<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	Impact to Form, Fit, Function	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Impact to Data Sheet	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	New Revision or Date	<input checked="" type="checkbox"/> N/A

Impact to Performance, Characteristics or Reliability:

- No Impact to product form, fit, function, quality, application, performance, characteristics or reliability.
- No Change to data sheet content or package dimensions.




PRODUCT / PROCESS CHANGE NOTIFICATION

PCN-000367

Date: 04/11/2016

P2/5

Implementation Date	09/30/2016	Work Week	1640
Last Time Ship (LTS) Of unchanged product	09/30/2016	Affecting Lot No. / Serial No. (SN)	N/A
Sample Availability	Yes	Qualification Report Availability	Included with PCN
Supporting Documents for Change Validation/Attachments: <ul style="list-style-type: none"> • Ablestik Technical Data Sheet; ABLETHERM 2600AT-EN • Loctite Technical Data sheet; ABLESTIK ABP 8060T-EN • Ablestik ABP 8060T RoHS, Halogen and Sb environmental SGS reports • Ablestik ABP 8060T Qualification Report 			
Issuing Authority			
Semtech Business Unit:	Power Management		
Semtech Contact Info:	Randy Biddle <i>Engineer Sr., Product Quality</i> Semtech Corporation 1101 Resource Dr. Suite 121 Plano, Texas 75074 rbiddle@semtech.com Voice: (469) 277-6078 Cell: (805) 377-7747		
FOR FURTHER INFORMATION & WORLDWIDE SALES COVERAGE: http://www.semtech.com/contact/index.html#support			

Ablestik

ABLETHERM 2600AT

July 2010

PRODUCT DESCRIPTION

ABLETHERM 2600AT provides the following product characteristics:

Technology	Thermal Management
Appearance	Silver
Cure	Heat cure
Product Benefits	<ul style="list-style-type: none"> • High thermal conductivity • High electrical conductivity • Low bleed • Long work life
Application	Die attach
Filler Type	Silver
pH	4.4

ABLETHERM 2600AT adhesive is designed for thermal management applications requiring high heat extraction from the die, such as high power and discrete devices. This adhesive uses a unique suspension system containing silver and resin particles suspended in solvent carrier. Once the material is fully cured and the solvent is evaporated, the adhesive has an extremely high silver loading.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Thixotropic Index (0.5/5 rpm)	6.0
Viscosity, Brookfield CP51, 25 °C, mPa-s (cP):	
Speed 5 rpm	8,500
Work Life @ 25°C, hours	24
Shelf Life @ -40°C, year	1
Flash Point - See MSDS	

TYPICAL CURING PERFORMANCE

Cure Schedule

30 minute ramp to 200°C + 15 minutes @ 200°C

Alternative Cure Schedule

30 minute ramp to 175°C + 1 hour @ 175°C

Weight Loss on Cure

10 x 10 mm Si die on glass slide, % 9.19

The above cure profiles are guideline recommendations. Cure conditions (time and temperature) may vary based on customers' experience and their application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties:

Coefficient of Thermal Expansion ppm/°C:	
Below Tg, ppm/°C	35
Above Tg, ppm/°C	118

Glass Transition Temperature (Tg) by TMA, °C	84
Thermal Conductivity, W/mK	20
Tensile Modulus, DMTA:	
@ -65 °C	N/mm ² 5,262 (psi) (763,000)
@ 25 °C	N/mm ² 3,648 (psi) (529,000)
@ 150 °C	N/mm ² 297 (psi) (43,000)
@ 250 °C	N/mm ² 214 (psi) (31,000)
Extractable Ionic Content, @ 100°C ppm:	
Chloride (Cl-)	<20
Sodium (Na+)	<20
Potassium (K+)	<10
Water Extract Conductivity, µmhos/cm	22
Moisture Absorption @ Saturation, wt.% @ 85°C/85%RH	0.25
Electrical Properties:	
Volume Resistivity, ohms-cm	0.00005
Bond Joint Resistance, ohms/0.5 sq.in. Cu to Cu joint 25 µm bondline thickness	0.00005

TYPICAL PERFORMANCE OF CURED MATERIAL

Die Shear Strength:
2 x 2 mm Si die on Ag/Cu leadframe, kg-f @ 25°C 8.1

Die Shear Strength vs Temperature, kg-f:

@25°C	@200°C	@250°C	3 x 3 mm Si die on:
18.3	1.3	1.1	Ag/Cu leadframe
12.7	1.2	1.1	Cu leadframe
16.4	1.2	0.9	Pd/Ni leadframe
9.7	2.3	2.1	Au flash leadframe

Chip Warpage vs Chip Size:

0.38 mm thick Si die on Ag/Cu leadframe @25°C, µm

Chip Size:	Warpage:
7.6 x 7.6 mm	15
12.7 x 12.7 mm	58

GENERAL INFORMATION

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).





Technical Data Sheet

ABLESTIK ABP 8060T

April 2012

PRODUCT DESCRIPTION

ABLESTIK ABP 8060T provides the following product characteristics:

Technology	BMI Hybrid
Appearance	Silver paste
Product Benefits	<ul style="list-style-type: none"> Hydrophobic Electrically conductive Thermally conductive Stable at high temperatures High die shear strength
Cure	Heat cure
Application	Die attach
Typical Package Application	MOSFET

ABLESTIK ABP 8060T is formulated to provide high heat transfer generated from power devices. This material can also be used as a soft solder alternate for applications requiring high thermal and electrical conductivity.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Thixotropic Index (0.5/5 rpm)	6.0
Viscosity, Brookfield CPS1, 25 °C, mPa-s (cP):	
Speed 5 rpm	12,000
Filler Content, %	85
Work Life @ 25°C, hours	24
Flash Point - See MSDS	

TYPICAL CURING PERFORMANCE

Cure Schedule

45 minutes ramp from 25°C to 200°C + 60 minutes @ 200°C in N₂ or air oven

Alternative Cure Schedule

30 minutes ramp from 25°C to 175°C + 60 minutes @ 175°C in N₂ or air oven

The above cure profiles are guideline recommendations. Cure conditions (time and temperature) may vary based on customers' experience and their application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties

Coefficient of Thermal Expansion, TMA:	
Alpha 1, ppm	55
Alpha 2, ppm	120
Tensile Modulus, DMTA:	
@ 25°C	N/mm ² 6,230 (psi) (903,005)
@ 250°C	N/mm ² 1,730 (psi) (251,495)
Extractable Ionic Content, @ 100°C, ppm:	
Chloride (Cl ⁻)	<10
Sodium (Na ⁺)	<10
Potassium (K ⁺)	<10
Thermal Conductivity, W/(m-K)	20

Electrical Properties

Volume Resistivity, ohm-cm	2.5x10 ⁸
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TYPICAL PERFORMANCE OF CURED MATERIAL

Miscellaneous

Die Shear Strength:

1.27 X 1.27 mm (50 x 50 mil) Bare Si Die, Kg:	
@ 25°C	>2.3
@ 260°C	>1.3
1.02 X 1.02 mm (40 x 40 mil) Ag backmetal die, Kg:	
@ 25°C	>2.0
@ 260°C	>1.3

GENERAL INFORMATION

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).

THAWING:

1. Allow container to reach room temperature before use.
2. After removing from the freezer, set the syringes to stand vertically while thawing.
3. Refer to the Syringe Thaw time chart for the thaw time recommendation.
4. DO NOT open the container before contents reach 25°C temperature. Any moisture that collects on the thawed container should be removed prior to opening the container.
5. DO NOT re-freeze. Once thawed to 25°C, the adhesive should not be re-frozen.



Supporting Document for the PCN – Epoxy Properties

1. Epoxy Property comparison for all candidates – ABP8060T, ABP8062 and 2600AT.

Epoxy Properties comparison			
	Cirtek - SOIC-EP	Cirtek - SOIC-EP	Control
	ABP 8060T	ABP 8062T	2600AT
Base Resin	BMI Hybrid	BMI Hybrid	Polyester
Elastomer	Proprietary BMI	Proprietary BMI	Proprietary copolymer
Diluents	Acrylate	Acrylate	Hydrocarbon
Filler	Silver	Silver	Silver
Filler Content	85%	85%	81%
Viscosity at 25C 5rpm	12K cp	15K cp	8.5K cp
Thixo index	6	6.1	6
Work life (hours)	24	24	24
Storage life at -40C	1 year	1 year	1 year
Cl	<10	<10	<20
Na	<10	<10	<20
K	<10	<10	<20
F	no data	no data	no data
pH	no data	5.2	4.4
Tg (°C)	110	44	84
CTE 1	59	60	35
CTE 2	120	150	118
Modulus @ -65C	N/mm ² 8094	N/mm ² 5830	N/mm ² 5,262
Modulus @ 25C	N/mm ² 6230	N/mm ² 4330	N/mm ² 3,648
Modulus @ 150C	N/mm ² 2700	N/mm ² 1500	N/mm ² 297
Modulus @ 250C	N/mm ² 1730	N/mm ² 1280	N/mm ² 214
Thermal Conductivity (Laser Flash)	20	24	20
Volume Resistance	ohm-cm 2.5×10 ⁻⁵	ohm-cm 5×10 ⁻⁵	ohm-cm 5×10 ⁻⁵
Weight loss during cure	4.60%	6%	3.19%
Cure condition	45 minutes ramp from 25° C to 200° C + 60 minutes @ 200° C in N2 or air oven	45 minutes ramp from 25° C to 200° C + 30 minutes @ 200° C in N2 or air oven	30 minute ramp to 200° C + 15 minutes @ 200° C
Moisture Absorption	0.25% @ saturation	no data	0.25% @ saturation
Manufacturing Site	WGQ	WGQ	Korea

Rel Job Detail Report

by Sublot, by Sequence
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<i>Businessunit</i>	<i>Power Management</i>			
<i>Reljob#</i>	<i>Part_Number, Job Name/Type</i>	<i>Fab, Package</i>	<i>Rel Job Status</i>	<i>Key Dates:</i>
6056	SC2596 / SC4524C / SC4215H		Rel Testing Complete Passes All Requirements	<i>Job Accepted:</i> 01-Sep-2015
	Cirtek SOIC ABP8060T Epoxy Qualification	SOIC		<i>Requested CD:</i>
	Misc Rel Job		"	<i>Actual Start Date:</i> 06-Oct-2015
				<i>ECD for Conditional:</i>
				<i>Job ECD:</i> 03-Dec-2015

Completed Tasks

<i>I.O</i>	<i>Lot</i>	<i>AssemblyLot</i>	<i>DateCode</i>			
	JA69458.15	AER-002786B	1535			
<i>Seq</i>	<i>TaskCode</i>	<i>SampleSize</i>	<i>Criteria</i>	<i>Complete</i>	<i>Failures</i>	<i>DataSource Results/Comments</i>
1	Data-Prep	None	None	06-Oct-2015	0	Camarillo
2	HTOL_Pre_Elect	35	Pass on Zero Fails	09-Oct-2015	0	Camarillo
3	BI_BD_Valid	NA	Meet HTOL Schematics	09-Oct-2015	0	Camarillo
4	HTOL_125°C_0168	35	Pass on Zero Fails	16-Oct-2015	0	Camarillo
5	HTOL_125°C_1000	35	Pass on Zero Fails	20-Nov-2015	0	Camarillo
6	HTS_Pre_Elect	77	Pass on Zero Fails	09-Oct-2015	0	Camarillo
7	HTS_0250	77	Pass on Zero Fails	19-Oct-2015	0	Camarillo
8	HTS_1000	77	Pass on Zero Fails	20-Nov-2015	0	Camarillo
9	Pre_Conditioning_Level_1	NA	MSL 1	01-Oct-2015	0	Camarillo
10	Pre_Elect_Precond	77	Pass on Zero Fails	13-Oct-2015	0	Camarillo
11	CSAM Analysis	22	Pass on Zero Fails	14-Oct-2015	0	Camarillo
12	Precond_Temp_Cyc_5cyc	77	Pass on Zero Fails	14-Oct-2015	0	Camarillo
13	Precond_HTS_24hr	77	Pass on Zero Fails	15-Oct-2015	0	Camarillo
14	Precond_85/85_NoElec168hr	77	Pass on Zero Fails	22-Oct-2015	0	Camarillo
15	Precond_260°C_IR_Ref_Char	77	Pass on Zero Fails	22-Oct-2015	0	Camarillo

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16 CSAM Analysis	22	Pass on Zero Fails	26-Oct-2015	0	Camarillo
17 T/C_Pre_Elect	77	Pass on Zero Fails	29-Oct-2015	0	Camarillo
18 T/C_wPre_0250	76	Pass on Zero Fails	03-Nov-2015	0	Camarillo
19 T/C_wPre_0500	76	Pass on Zero Fails	09-Nov-2015	0	Camarillo
20 T/C_wPre_1000	76	Pass on Zero Fails	19-Nov-2015	0	Camarillo
21 CSAM Analysis	22	Pass on Zero Fails	23-Nov-2015	0	Camarillo
22 Pre_Elect_Precond	77	Pass on Zero Fails	13-Oct-2015	0	Camarillo
23 CSAM Analysis	22	Pass on Zero Fails	14-Oct-2015	0	Camarillo
24 Precond_Temp_Cyc_5cyc	77	Pass on Zero Fails	14-Oct-2015	0	Camarillo
25 Precond_HTS_24hr	77	Pass on Zero Fails	15-Oct-2015	0	Camarillo
26 Precond_85/85_NoElec168hr	77	Pass on Zero Fails	22-Oct-2015	0	Camarillo
27 Precond_260°C_IR_Ref_Char	77	Pass on Zero Fails	22-Oct-2015	0	Camarillo
28 CSAM Analysis	22	Pass on Zero Fails	26-Oct-2015	0	Camarillo
29 HAST Pre_Elect	77	Pass on Zero Fails	29-Oct-2015	0	Camarillo
30 HAST_BD_Validation	N/A	Pass on Zero Fails	17-Nov-2015	0	Camarillo
31 HAST_wPRE_264 Hrs 110°C	77	Pass on Zero Fails	30-Nov-2015	0	Camarillo
32 HAST_Post_Elect_room	77	Pass on Zero Fails	01-Dec-2015	0	Camarillo
33 CSAM Analysis	22	Pass on Zero Fails	03-Dec-2015	0	Camarillo
34 Pack_Clos	0	0	03-Dec-2015	0	Camarillo

2.0 Lot GE57270 AssemblyLot AER-002787B DateCode

Seq	TaskCode	SampleSize	Criteria	Complete	Failures	DataSource	Results/Comments
1	Data-Prep	None	None	08-Oct-2015	0	Camarillo	
2	HTOL_Pre_Elect	35	Pass on Zero Fails	09-Oct-2015	0	Camarillo	
3	BI_BD_Valid	NA	Meet HTOL Schematics	13-Oct-2015	0	Camarillo	
4	HTOL_125°C_0168	35	Pass on Zero Fails	21-Oct-2015	0	Camarillo	
5	HTOL_125°C_1000	35	Pass on Zero Fails	24-Nov-2015	0	Camarillo	
6	HTS_Pre_Elect	35	Pass on Zero Fails	07-Oct-2015	0	Camarillo	

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7 HTS_0250	35	Pass on Zero Fails	21-Oct-2015	0	Camarillo
8 HTS_1000	35	Pass on Zero Fails	19-Nov-2015	0	Camarillo
9 Pre_Conditioning_Level_1	NA	MSL 1	01-Oct-2015	0	Camarillo
10 Pre_Elect_Precond	77	Pass on Zero Fails	13-Oct-2015	0	Camarillo
11 CSAM Analysis	22	Pass on Zero Fails	14-Oct-2015	0	Camarillo
12 Precond_Temp_Cyc_5cyc	77	Pass on Zero Fails	14-Oct-2015	0	Camarillo
13 Precond_HTS_24hr	77	Pass on Zero Fails	15-Oct-2015	0	Camarillo
14 Precond_85/85_NoElec168hr	77	Pass on Zero Fails	23-Oct-2015	0	Camarillo
15 Precond_260°C_IR_Ref_Char	77	Pass on Zero Fails	23-Oct-2015	0	Camarillo
16 CSAM Analysis	22	Pass on Zero Fails	23-Oct-2015	0	Camarillo
17 T/C_Pre_Elect	77	Pass on Zero Fails	27-Oct-2015	0	Camarillo
19 T/C_wPre_0500	77	Pass on Zero Fails	09-Nov-2015	0	Camarillo
20 T/C_wPre_1000	77	Pass on Zero Fails	17-Nov-2015	0	Camarillo
21 CSAM Analysis	22	Pass on Zero Fails	18-Nov-2015	0	Camarillo
22 Pre_Elect_Precond	77	Pass on Zero Fails	13-Oct-2015	0	Camarillo
23 CSAM Analysis	22	Pass on Zero Fails	14-Oct-2015	0	Camarillo
24 Precond_Temp_Cyc_5cyc	77	Pass on Zero Fails	14-Oct-2015	0	Camarillo
25 Precond_HTS_24hr	77	Pass on Zero Fails	15-Oct-2015	0	Camarillo
26 Precond_85/85_NoElec168hr	77	Pass on Zero Fails	23-Oct-2015	0	Camarillo
27 Precond_260°C_IR_Ref_Char	77	Pass on Zero Fails	23-Oct-2015	0	Camarillo
28 CSAM Analysis	22	Pass on Zero Fails	23-Oct-2015	0	Camarillo
29 HAST Pre_Elect	77	Pass on Zero Fails	28-Oct-2015	0	Camarillo
30 HAST_BD_Validation	N/A	Pass on Zero Fails	29-Oct-2015	0	Camarillo
31 HAST_wPRE_264 Hrs 110°C	77	Pass on Zero Fails	04-Nov-2015	0	Camarillo
32 HAST_Post_Elect_room	77	Pass on Zero Fails	17-Nov-2015	0	Camarillo
33 CSAM Analysis	22	Pass on Zero Fails	18-Nov-2015	0	Camarillo
34 Pack_Clos	0	0	25-Nov-2015	0	Camarillo

Rel Job Detail Report

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3.0 Lot 6635250 AssemblyLot AER-002784B DateCode

Seq	TaskCode	SampleSize	Criteria	Complete	Failures	DataSource	Results/Comments
1	Data-Prep	None	None	01-Oct-2015	0	Camarillo	
2	HTOL_Pre_Elect	35	Pass on Zero Fails	05-Oct-2015	0	Camarillo	
3	BI_BD_Valid	NA	Meet HTOL Schematics	08-Oct-2015	0	Camarillo	
4	HTOL_125°C_0168	35	Pass on Zero Fails	16-Oct-2015	0	Camarillo	
5	HTOL_125°C_1000	35	Pass on Zero Fails	20-Nov-2015	0	Camarillo	
6	HTS_Pre_Elect	77	Pass on Zero Fails	05-Oct-2015	0	Camarillo	
7	HTS_0250	77	Pass on Zero Fails	19-Oct-2015	0	Camarillo	
8	HTS_1000	77	Pass on Zero Fails	16-Nov-2015	0	Camarillo	
9	Pre_Conditioning_Level_1	NA	MSL 1	01-Oct-2015	0	Camarillo	
10	Pre_Elect_Precond	77	Pass on Zero Fails	05-Oct-2015	0	Camarillo	
11	CSAM Analysis	22	Pass on Zero Fails	06-Oct-2015	0	Camarillo	
12	Precond_Temp_Cyc_5cyc	77	Pass on Zero Fails	06-Oct-2015	0	Camarillo	
13	Precond_HTS_24hr	77	Pass on Zero Fails	07-Oct-2015	0	Camarillo	
14	Precond_85/85_NoElec168hr	77	Pass on Zero Fails	14-Oct-2015	0	Camarillo	
15	Precond_260°C_IR_Ref_Char	77	Pass on Zero Fails	14-Oct-2015	0	Camarillo	
16	CSAM Analysis	22	Pass on Zero Fails	15-Oct-2015	0	Camarillo	
17	T/C_Pre_Elect	77	Pass on Zero Fails	19-Oct-2015	0	Camarillo	
18	T/C_wPre_0250	77	Pass on Zero Fails	26-Oct-2015	0	Camarillo	
19	T/C_wPre_0500	77	Pass on Zero Fails	02-Nov-2015	0	Camarillo	
20	T/C_wPre_1000	77	Pass on Zero Fails	09-Nov-2015	0	Camarillo	
21	CSAM Analysis	22	Pass on Zero Fails	12-Nov-2015	0	Camarillo	
22	Pre_Elect_Precond	77	Pass on Zero Fails	05-Oct-2015	0	Camarillo	
23	CSAM Analysis	22	Pass on Zero Fails	06-Oct-2015	0	Camarillo	
24	Precond_Temp_Cyc_5cyc	77	Pass on Zero Fails	06-Oct-2015	0	Camarillo	
25	Precond_HTS_24hr	77	Pass on Zero Fails	07-Oct-2015	0	Camarillo	

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26 Precond_85/85_NoElec168hr	77	Pass on Zero Fails	14-Oct-2015	0	Camarillo
27 Precond_260°C_IR_Ref_Char	77	Pass on Zero Fails	14-Oct-2015	0	Camarillo
28 CSAM Analysis	22	Pass on Zero Fails	15-Oct-2015	0	Camarillo
29 HAST Pre_Elect	77	Pass on Zero Fails	19-Oct-2015	0	Camarillo
30 HAST_BD_Validation	N/A	Pass on Zero Fails	20-Oct-2015	0	Camarillo
31 HAST_wPRE_264 Hrs 110°C	77	Pass on Zero Fails	04-Nov-2015	0	Camarillo
32 HAST_Post_Elect_room	77	Pass on Zero Fails	05-Nov-2015	0	Camarillo
33 CSAM Analysis	22	Pass on Zero Fails	06-Nov-2015	0	Camarillo
34 Pack_Clos	0	0	20-Nov-2015	0	Camarillo