頁 1/2 coverpage



安勤科技股份有限公司

APPROVAL SHEET NO.APP-182180

					QD4-015 Rev.I				
		申請種類:Up	date承認						
 料號	E196121110000	3R							
品名	Heatsink for CPU EBM-BYT 鑫旭	eatsink for CPU 86.4*60*22.4 AL 銀 A3							
製造商	鑫旭				Update				
廠商型號	E1961211100003	3R			Opuate				
Update 原因說明	承認書內照片螺約	条有誤,故更新承認書			安勤科技股份有限公司正式承認				
庫存說明	無庫存。				09/06/2018				
其它					資料中心 AVALUFTECHNOLOGY INC.				
	•	安勤科技 >	則試報	告	SOP TECHNOLOGY W				
測試日期	2018-09-04 05:00	0:37		測試樣品數	3 PCS				
	項目	3	測試條件						
	外觀	不可有髒污、破損及舌	不可有髒污、破損及刮傷						
	材質	依照承認圖面所標示的	依照承認圖面所標示的材質為檢驗標準						
	電氣特性								
	機械強度								
	實裝動作	與料件組裝檢驗			Pass				
測試項目	破壞實驗								
测訊垻日	顏色	依照照片或圖面標示的	可顏色為檢	驗標準	Pass				
	尺寸	依照承認圖面所標示的	刀尺寸為檢	驗標準	Pass				
	沾錫性								
	壽命實驗								
	安規								
	其它測試								
	使用儀器	游標卡尺							
備註	内構件不影響功能	走之外觀不良,皆可允收。							
測試結果	符合測試條件及規	H +/1							

備註:

1. 申請人需先至GPM/管理/物料MCD設定/料號-審核狀態為通過,查詢此料已完成GREEN的承認,再

coverpage 頁 2 / 2

辦理規格等承認。

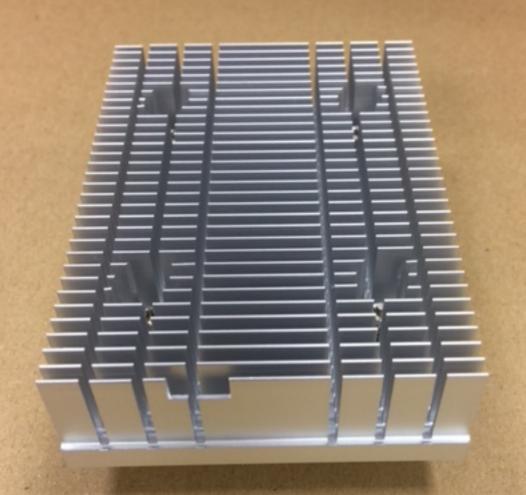
- 2. 本單不能代替採購單及其它用途。
- 3. 如涉及專利及法律之問題,應由送樣廠商負全責。
- 4. 以下內容所註記, 已經檢驗過並給予承認。
- 5. 申請承認需依料階符合「承認應備文件和檔案」

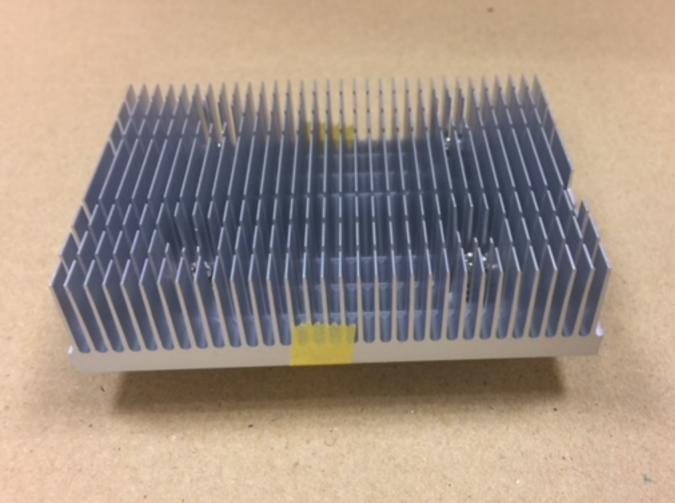
Workflow

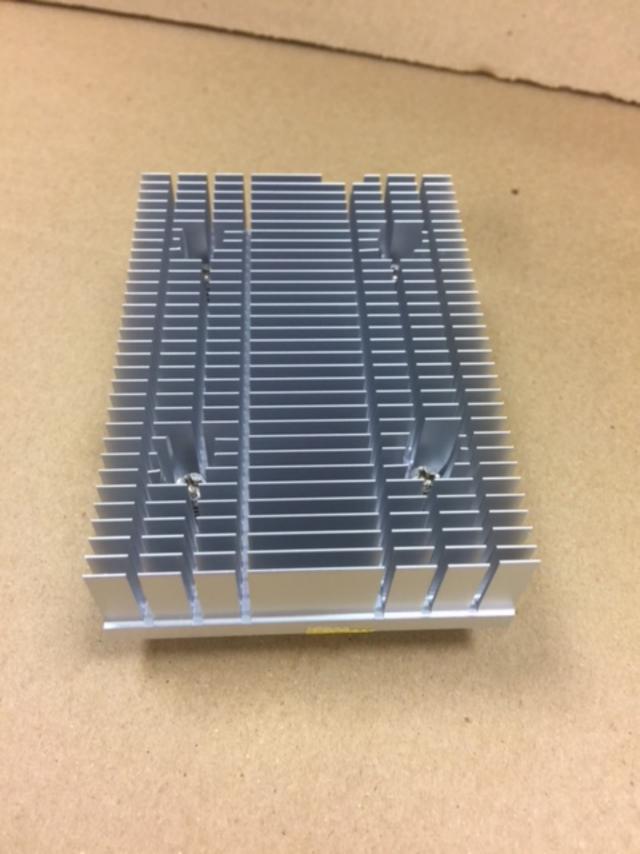
Workflow Status	Action	Signoff User	Local Client Time	Signoff Comments
Initial (填表人)		ME3 Kobe Chang (張道豐)	2018-09-04 17:02:58	
Manager Review	Approved	ME1 Manager Dragon Huang (黃文能)	2018-09-04 17:13:15	
PDC & QC	Approved	QA-QC Jeason_Shen (沈俊輝)	2018-09-04 18:26:39	
PDC & QC	Approved	PDC Narnia Chen (陳怡如)	2018-09-05 17:24:21	
PDC Head	Approved	PDC Mandy Huang (黃意婷)	2018-09-05 17:26:25	





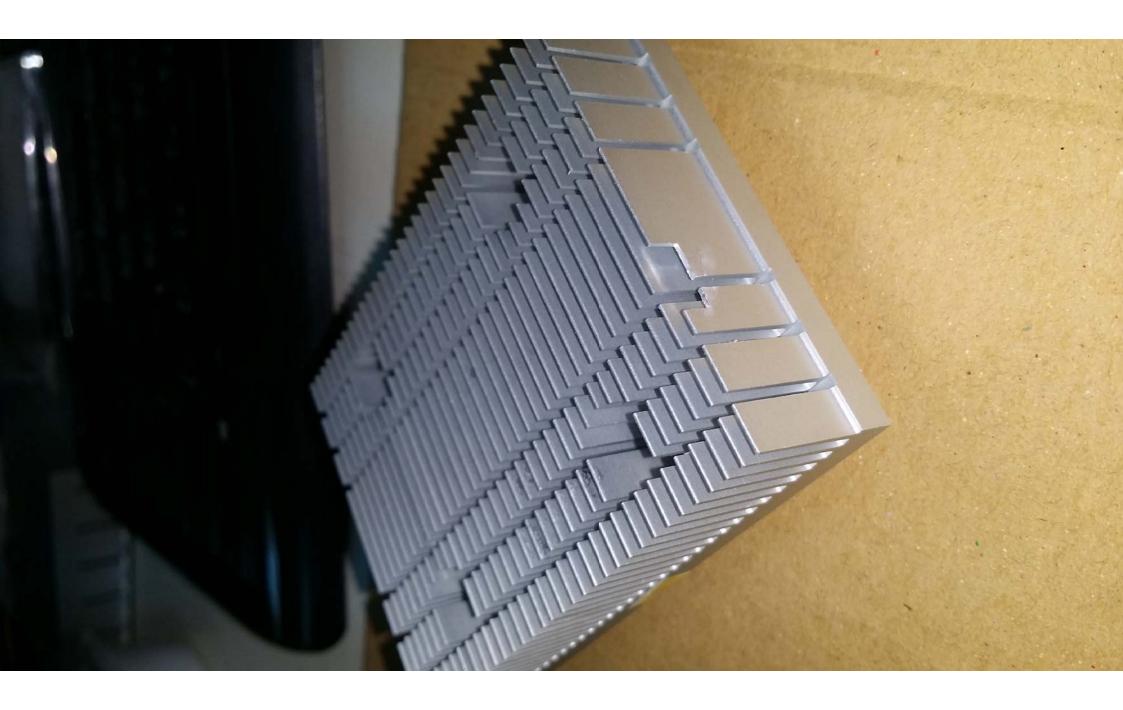
















鑫旭科技股份有限公司

FZtech Inc.

7F-3,No.498, BanNan Rd., Jung He city,Taipei, Taiwan,235,R.O.C Tel: +886 2 2228-7885 Fax: +886 2 2228-8938

Website: www.FZtech.com.tw



Approval Sheet

客戶名稱	安勤科技股份有限公司	
CUSTOMER	文 <u>纳</u> 尔内文成 6 万 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
客戶物料編號	E1961211100003R	
CUSTOMER P/N	E1901211100005K	

Issued by
Rebecca.Hung

Approved by	

Doc. No	FZT141024001
Issued Date	OCT. 24.2014
Version	А3



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Website: www.FZtech.com.tw



Revision History

Data	Rev.	Description of change
2014/06/14	A1	First Release
2014/08/17	A2	增加彈簧螺絲
2014/10/24	A3	鰭片加工凹糟







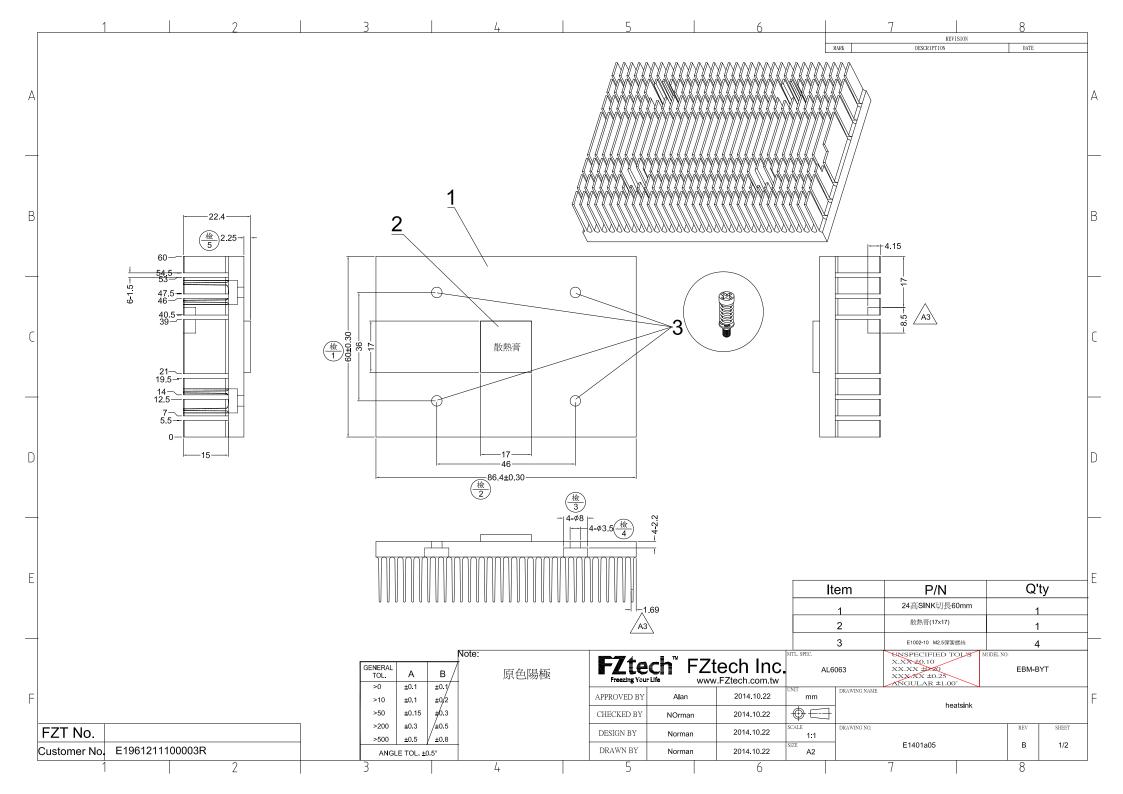




安勤科技股份有限公司 機構件承認書內容

項次	項目		內容
			必備項目
1	封面	依供	·應商樣品承認封面(QD4-015)執行。
2	供應商承認書內容	指本	·真。
3	圖面	圖面 1. 2. 3. 4. 5. 6.	方內容: 需簽署(核准)完整、標示完整(尺寸、公差、版本)。 需該明顏色、色差值、材質、料厚、料號及材料所需之 表面處理資訊。 需標註重點尺寸。 需說明注意事項或重點檢驗項目(變形量、髮絲方向、毛 邊方向、防火等級)。 註明表面處理之膜厚。 註明可承受之扭拉力數值。
4	零件履歷表	零件	-版本歷史記錄。
5	機構量測報告	FAI((全尺寸量測)。
6	材質證明(含成分明細)	材質	· 「證明文件與物性表文件。
7	承認零件照片	照片	不可模糊,多角度拍攝。
	ì	選用コ	項目(請於下面方框中勾選)
8	機構量測報告(沖壓模具品)		Cpk ∘
9	UL 證明文件(塑件)		UL 文件、防火等級。
10	衝擊實驗(Shock Test)報告		Made by 3rd party ∘
11	包裝規範		紙箱規格、包裝形式、堆疊方式、堆疊高度。
12	落下實驗(Drop Test)報告		Made by 3rd party ∘
13	包裝震動實驗		主要為測試運輸過程是否造成損傷,以箱或棧板為基礎單位。

Avalue Technology Inc.



PART No.	REV.	SITE	REMARK	DESIGNED	APPROVED	DATE
E1961211100003R	A1		A1新版	Fan	Dragon	140614
E1961211100003R	A2		增加彈簧螺絲	Fan	Dragon	140817
E1961211100003R	A3		鳍片加工凹槽	Kobe	Dragon	141024
						_

鑫旭科技股份有限公司

FAI: First Article Data Report

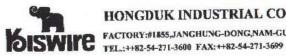
料號		211100003R			材質 AL 6063	型號 - 型號	EBM	-BYT		014/10/22
品名	HEATS								頁次 1	
No.	Drwg.		N SPECIFIC		檢驗儀器			INSPECTION		
	Loc.	General DIM.	+TOL.	-TOL	CHECKING INSTRUMENT	1	2	3	4	5
1	C3	60	0.3	0.3		60.2	60.15	60.1		
2	D4	86.4	0.3	0.3		86.5	86.6	86.4		
3	D4	D8	0.1	0.1		7.95	8.05	8.1		
4	E4	D3.5	0.1	0.1		3.55	3.6	3.5		
5	B2	2.25	0.1	0.1		2.35	2.3	2.3		
6	B2	22.4	0.1	0.1		22.5	22.4	22.45		
7	C3	36	0.1	0.1		36.05	36.1	36		
8	C3	17	0.1	0.1	游標卡尺	16.95	17	17.05		
9	D4	17	0.1	0.1		17	17.1	17.08		
10	D4	46	0.1	0.1		46.05	46.08	46.01		
11	E5	2.2	0.1	0.1		2.25	2.23	2.15		
12	В7	4.15	0.1	0.1		4.1	4.16	4.09		
13	C7	17	0.1	0.1		17.09	17.05	16.98		
14	C7	8.5	0.1	0.1		8.55	8.58	8.49		
15	E5	1.69	0.1	0.1		1.7	1.60	1.63		
16										
17										
18										
19										
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21 22										
23										+
24										
25										1
26				_						
27										
28										
29										
蒲註:										

正新鋁業股份有限公司 鋁料材質證明書

正新鋁門窗

日期:103 年 01 月 09 日

						CANALIS CONTRACTOR		19			
客戶名	稱	欣宏科技有	限公司	工程	名稱						
合金規	格	6063-T5	3063-T5								
化學成	份	矽	鐵	銅	錳	鉻	鎂	鋅	鈦		
%	規	0. 2-0. 6	0.35 以下	0.10 以下	0.10 以下	0.10 以下	0.45-0.9	0.10 以下	0.10 以下		
	範										
补密 -加	實	0.44	0.19	0.00	0.01	0.00	0.51	0.00	0.012		
餘額=鋁	測					9 *					
分析判	定				合材	各					
備註			1	化學成份	依據 CI	NS 2068	H3021				
廠長		李錦坤									
工廠地	工廠地址:中壢工業區北園二路 6 號 TEL:03-4526911 FAX:03-4520071										



HONGDUK INDUSTRIAL CO., LTD

FACTORY:#1855.JANGHUNG-DONG,NAM-GU,FOHANG-CITY,KYOUNGBUK,(790-240),KOREA

TEST CERTIFICATE 시 형 성 적 서

Date of Shipment: 2012 - 06 - 23

선적/출하일자 Date of Issue

2012 - 06 - 20

발행밀자

Customer I SHENG	Wire Dimension 0.6 mm 지수 SW-C	Commodity Hard Drawn Steel Wires 제품		Specification JIS G 3521 적용규칙		
고객 Customer's PO No. 20120412 스즈버용	Hengduk Industrial's Lot No / EX No. 지시번호 HS-2026/03	L/C No.(T/T No.D/A No) 2AQQH2002903-969	Total Cails 수량	22	Total Net weight 총중량	1,012.20 kgs

A. Chemical Composition(%)

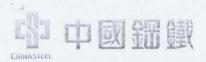
Heat No : SF07847

			Chemical Composition(%)										
	1	C	Si	Mn	P	S	Cu	Cr	v	Al	O2	Ti	Ni
Specification	Min Max	0.79 0.86	0.15 0.35	0.30 0.60	0.030	0.030							
Actual	-	0.829	0.207	0.442	0.007	0.005							

Mechanical Properties [tem	Diameter 선경	0.6 m.m	Tensile Strength	Torsion Value	Torsion State	Wrap	Bend	Coiling		ization	2004 (100)	Appearance		weight	Remark
	Telerance 허용자	Ovality 편경차	인장강도 (N/=)	비물림됐수 (Turns)	비웰림상태	감기시험 (4xD)	급행시험 (90°)	코일링시쒐	단면감소율	탈단 (anm)	홍깊이 (mm)	외관	경도	중량 (kgs)	RI그
Spec. Min Max	0.580 0.620	0.020	2,110 2,400			Good				Page 1		Good			
Max 최대 Ave 평균 Min 최소	0.600 0.599 0.599	0.001 0.001 0.001	2,350 2,322 2,286			Pass						Pass			

Lee, Sung-Hee

Quality Control Team Manager



品質證明書 TEST CERTIFICATE

中國鋼鐵股份有限公司 CHINA STEEL CORPORATION 中華民國高雄市小港區中鋼路1號。 1 CHUNG KANG ROAD HSIAO KANG, KAOHSIUNG (812) TAIWAN, REPUBLIC OF CHINA TEL: (07) 802-1111 FAX: (07) 802-2511, (07) 801-9427

冶金技術處處長 GENERAL MANAGER, METALLURGICAL DEPARTMENT

	B008	34-01	BUZ IIII IAA.	(01)002-2311, (01)001-9421
	產	品名稱 RC	D-REPHOSPHO	ORIZED&RESULFURIZED STEEL
			V78708604	證明書編號 CERTIFICATE NO. 980325B008
	客	戶編號		中銅訂單編號 CSC ORDER NO. JWO054R
			AR. 24, 2009	證明書日期 T/C ISSUE DATE MAR. 25, 200
T/C 01	客户CUST	订單編號 ORDER NO.		
	化學成份		ALYSIS %	
		2 Ni Cr Mo Al		備註
	X10 X10 X10	X10 X10		REMARKS
	T/C 01	上海	連品名称 RO 接換 RO 接換 RO RO 接換 RO EW 客戶編號 CUSTOMER NO. 30 交通日期 SHIPPING DATE MA CUST ORDER NO. CUST ORDER NO.	ROD-REPHOSPHO ROD-REPHOSPHO REW78708604 ROD-REPHOSPHO REW78708604 ROD-REPHOSPHO REW78708604 ROD-REPHOSPHO R

TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE

ABOVE MATERIAL SPECIFICATION.

SURVEYOR TO

Material Safety Data Sheet



Revision Number: 003.0 Issue date: 01/13/2012

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:PSX 1M*0.36M*0.2MMIDH number:1166970Product type:Phase Change Thermal InterfaceItem number:43308

Material (PCTIM)

Region: United States Contact information:

Company address: Contact infor Henkel Electronic Materials LLC Telephone: 1.8

Henkel Electronic Materials LLC
Telephone: 1.888.9.HENKEL (1.888.943.6535)
MEDICAL EMERGENCY Phone: Poison Control Center Irvine, CA 92606
1-877-671-4608 (toll free) or 1-303-592-1711

TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

EXPORTATION OF THIS PRODUCT MAY BE CONTROLLED BY THE UNITED STATES GOVERNMENT DEPARTMENT OF COMMERCE. SEE SECTION 15 FOR DETAILS.

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

 Physical state:
 Solid
 HEALTH:
 *1

 Color:
 Metallic, grey
 FLAMMABILITY:
 1

 Odor:
 None
 PHYSICAL HAZARD:
 1

Personal Protection: See MSDS Section 8

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: May cause respiratory tract irritation.

Skin contact: May cause skin irritation.

Eye contact: May cause irritation.

Ingestion: Not expected under normal conditions of use. May cause gastrointestinal tract irritation if

swallowed.

Existing conditions aggravated by

exposure:

Eye, skin, and respiratory disorders. Asthma. Skin allergies.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR

1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Spherical aluminum powder	7429-90-5	60 - 100
Hydrocarbon co-oligomer	Proprietary	5 - 10
Hydrocarbon Waxes	Proprietary	1 - 5
Titanium, tris(isooctadecanoato-O)(2-propanolato)	61417-49-0	0.1 - 1

IDH number: 1166970 Product name: PSX 1M*0.36M*0.2MM

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. Get medical attention.

Skin contact: Immediately flush skin with plenty of water (using soap, if available). Remove

contaminated clothing and footwear. If symptoms develop and persist, get medical attention. Wash clothing before reuse. Thoroughly clean shoes before

reuse.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. Get medical

attention.

5. FIRE FIGHTING MEASURES

Flash point: > 200 °C (> 392°F) Closed cup

Autoignition temperature: Not available.

Flammable/Explosive limits - lower: Not available.

Flammable/Explosive limits - upper: Not available.

Extinguishing media: Do NOT use fire extinguishers rated for Class A, B or C fires. Do NOT use

water or halogenated extinguishers. Apply Class D extinguishing agent or dry sand to control spread of fire. Avoid creating dust clouds. Allow fire to

extinguish itself.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear. In case of fire, keep containers cool with water spray.

Unusual fire or explosion hazards: Closed containers may rupture (due to build up of pressure) when exposed to

extreme heat.

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Oxides of aluminum. Hydrocarbons.

Aluminum reacts exothermically with water, acids, and alkalis to produce

hydrogen.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not allow product to enter sewer or waterways.

Clean-up methods: Ensure adequate ventilation. Wear suitable protective clothing, gloves and

eye/face protection. If product is spilled in the solid state, pick up and place in an appropriate waste disposal container. If product is spilled in the molten state, allow product to solidify before scraping up and disposing of in an

appropriate waste disposal container.

7. HANDLING AND STORAGE

Handling: Keep container closed. Use only with adequate ventilation. Do not breathe

dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after

handling.

IDH number: 1166970 Product name: PSX 1M*0.36M*0.2MM

Storage:

Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Spherical aluminum powder	1 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA (as Al) Total dust. 5 mg/m3 TWA (as Al) Respirable dust.	None	None
Hydrocarbon co-oligomer	None	None	None	None
Hydrocarbon Waxes	None	None	None	None
Titanium, tris(isooctadecanoato-O)(2-propanolato)	None	None	None	None

Provide adequate local exhaust ventilation to maintain worker exposure below Engineering controls:

exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Use impermeable gloves and protective clothing as necessary to prevent skin

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid

Color: Metallic, grey

Odor: None Odor threshold: Not available.

Not available. pH: . Vapor pressure: Not available. Boiling point/range: Not available. Melting point/ range: 51 °C (123.8 °F) 2.04

Specific gravity:

Vapor density: Not available.

Flash point: > 200 °C (> 392°F) Closed cup

Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available. **Evaporation rate:** Not available. Solubility in water: Insoluble Partition coefficient (n-octanol/water): Not available.

VOC content: 0 %; 0 g/l (calculated)

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: None under normal processing.

Hazardous decomposition products: Hydrocarbons. Aluminum reacts exothermically with water, acids, and alkalis

to produce hydrogen. Oxides of carbon. Oxides of nitrogen. Oxides of

aluminum.

Incompatible materials: Water Acids. Alkalis. Oxidizing agents. Halogenated compounds. Metal

oxides.

Conditions to avoid: Heat, flames, sparks and other sources of ignition. Store away from

incompatible materials. Exposure to sunlight.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Spherical aluminum powder	No	No	No
Hydrocarbon co-oligomer	No	No	No
Hydrocarbon Waxes	No	No	No
Titanium, tris(isooctadecanoato-O)(2- propanolato)	No	No	No

Hazardous components	Health Effects/Target Organs					
Spherical aluminum powder	Central nervous system, Irritant, Lung					
Hydrocarbon co-oligomer	No Target Organs					
Hydrocarbon Waxes	No Records					
	Behavioral, Blood, Developmental, Eyes, Gastrointestinal tract, Immune					
Titanium, tris(isooctadecanoato-O)(2-propanolato)	system, Irritant, Kidney, Liver, Lung, Metabolic, Nervous System,					
	Reproductive, Skin					

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number:Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:Not regulatedHazard class or division:NoneIdentification number:NonePacking group:None

International Air Transportation (ICAO/IATA)

Proper shipping name:
Hazard class or division:
Identification number:
Packing group:

Not regulated
None
None

IDH number: 1166970 Product name: PSX 1M*0.36M*0.2MM

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated Hazard class or division: None Identification number: None Packing group: None

REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory.

TSCA 12(b) Export Notification: None above reporting de minimus

CERCLA/SARA Section 302 EHS:

CERCLA/SARA Section 311/312:

CERCLA/SARA 313:

None above reporting de minimus Immediate Health, Delayed Health

This product contains the following toxic chemicals subject to the reporting requirements of

section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40

CFR 372). Spherical aluminum powder (CAS# 7429-90-5).

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Export Restrictions: This product (which contains spherical aluminum powder) is subject to the U.S. Export

Administration Regulations and has been classified under Export Control Classification Number (ECCN) 1C992. Export, reexport, or other diversion of this product contrary to

U.S. law is prohibited.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

WHMIS hazard class: D.2.B, D.2.A

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format., Updated composition in Section 3.

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