



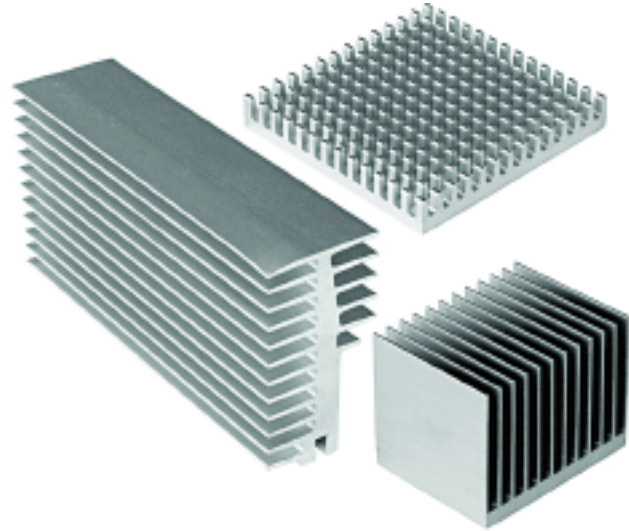
AAVID  
THERMALLOY

AavSHIELD<sup>NC</sup>  
Corrosion Protection for Aluminum

RoHS   
Compliant

## AavSHIELD<sup>NC</sup>

AavSHIELD<sup>NC</sup> is a non-chrome aluminum finish that exceeds current RoHS requirements. AavSHIELD<sup>NC</sup> provides corrosion protection and low electrical resistance while also improving adhesion properties. AavSHIELD<sup>NC</sup> is a clear finish suitable for moderate environments where the extreme protection of chromium based finishes is not necessary. The performance and features of AavSHIELD<sup>NC</sup> make it a good alternative to anodize where chromium free and electrical conductivity is critical.



### CRITICAL APPLICATION NEED:

- *Free of Chromium*
- *RoHS Compliant*
- *Corrosion Protection*
- *Low Electrical Resistance*
- *Adhesion*

### APPLICATIONS:

Any aluminum heat sink or assembly that requires chromium free corrosion protection and low electrical resistance.

Examples:      Bonded Fin  
                    Fabricated Extrusion  
                    Liquid Cold Plates

### ORDERING INFORMATION:

For custom products specify AAVSHIELD<sup>NC</sup> finish on the drawing.

### AavSHIELD<sup>NC</sup> SOLUTION:

- *Protective finish does not use chromium.*
- *Exceeds the European Union Directive "Restriction on the Use of Certain Hazardous Substances (RoHS) in Electrical and Electronic Equipment."*
- Withstands 24 hours of corrosion resistance per Mil -C-5541 and MIL-DTL-81706 using ASTM B-117 neutral salt spray test.
- Independent testing of electrical resistance per Mil-C-5541 was conducted before and after salt spray tests. The results showed an average electrical resistance of 1700 micro-ohms before salt spray and 5800 micro-ohms after.
- Paint and epoxy adhesion properties are better than bare aluminum. (Product testing is recommended since performance of the coating can be design-dependent.)

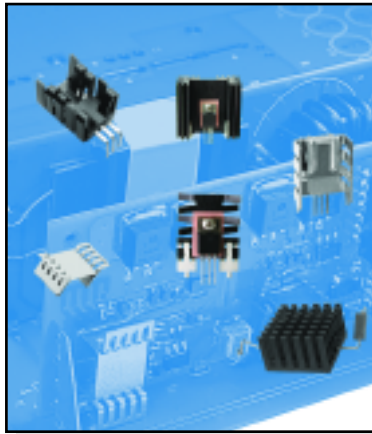
FOR MORE INFORMATION, VISIT OUR WEB SITE: [WWW.AAVIDTHERMALLOY.COM](http://WWW.AAVIDTHERMALLOY.COM)  
TEL: (603) 224-9988



**AAVID  
THERMALLOY**

**AavSHIELD<sup>NC</sup>**  
Corrosion Protection for Aluminum

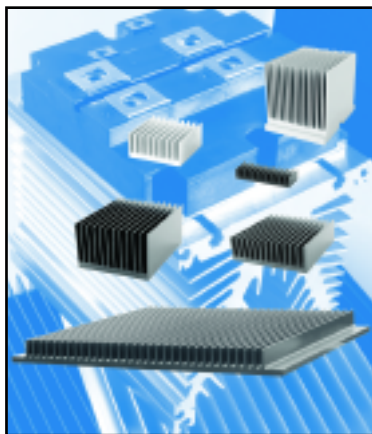
**RoHS** ✓  
**Compliant**



**Standard Board Level Heat Sinks**



**The Max Clip System™**



**Extrusion Selection Guide**



**Capability Brochure**

Aavid Thermalloy, LLC is committed to being a responsible global citizen through continual efforts to operate in ways that contribute to a cleaner, healthier environment for all. We strongly believe that good environmental practice is good business practice. Our customers, company, stakeholders, and community all benefit from this positive, proactive, and cost effective approach.

**North America**

80 Commercial Street  
Concord, NH 03301  
TEL: (603) 224-9988  
FAX: (603) 223-1790  
EMAIL: info@aavid.com

**Europe - Italy**

Via Aprile,32  
40057 Cadriano (BO), Italy  
TEL: (39) 051 764011  
FAX: (39) 051 764090  
EMAIL: sales.it@aavid.com

**Asia - Taiwan**

14F-4, NO. 79, Hsin Tai Wu RD.  
SEC. 1, Hsi Chih  
Taipei Hsien  
Taiwan  
TEL: 011(886) 2-2698-9888  
FAX: 011(886) 2-2698-9808

**Asia - Singapore**

5 Woodlands Industrial Park E1  
Singapore 757728  
TEL: 65 -6362-8388  
FAX: 65-6362-8588

PLEASE NOTE: Any information furnished by Aavid Thermalloy is believed to be accurate and reliable, but our customers bear all responsibility for use and applications of Aavid Thermalloy products. AAVID THERMALLOY MAKES NO WARRANTIES EXPRESSED OR IMPLIED, AS TO THE FITNESS, MERCHANTABILITY, OR SUITABILITY OF ANY AAVID THERMALLOY PRODUCTS FOR ANY SPECIFIC OR GENERAL USES. AAVID THERMALLOY SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND. All Aavid Thermalloy products are sold pursuant to the Aavid Thermalloy Domestic Terms and Conditions of Sale in effect from time to time, a copy of which shall be furnished upon request (8911A). Copyright © Aavid Thermalloy, LLC. March, 2006. All icons, drawings, illustrations, and trademarks are the property of Aavid Thermalloy, LLC. and may not be reproduced without express written permission. (3/2006)

**FOR MORE INFORMATION, VISIT OUR WEB SITE: [WWW.AAVIDTHERMALLOY.COM](http://WWW.AAVIDTHERMALLOY.COM)  
TEL: (603) 224-9988**