

INCH-POUND

A-A-56022
 19 October 1992
 SUPERSEDING
 MIL-C-47113B (MI)
 28 November 1986

COMMERCIAL ITEM DESCRIPTION

COMPOUND, HEAT SINK, SILICONE AND/OR NON-SILICONE

The General Services Administration has authorized the use of this Commercial Item Description in preference to MIL-C-47113.

Abstract. This commercial item description covers a silicone and/or non-silicone heat sink compound which is applied to the base and mounting studs of transistors and diodes to provide a positive heat sink seal and improve thermal conductivity at heat sink junctions.

Salient characteristics. The types and composition of the heat sink compound shall be as specified below:

1. Type I. Type I compound shall consist of a dimethyl polysiloxane base fluid in accordance with VV-D-1078 and a 99.0 percent pure, fine particle size zinc oxide filler.
2. Type II. Type II compound shall consist of a polyol ester base fluid and other materials: zinc oxide and aluminum silicate.

The material shall be opaque white and free from foreign matter that would adversely affect its intended purpose. The physical requirements are as shown in table I.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: Commander, U.S. Army Missile Command, ATTN: AMSMI-RD-SE-TD-ST, Redstone Arsenal, AL 35898-5270.

AMSC N/A
DISTRIBUTION STATEMENT A.
 distribution is unlimited.

FSC 6850
 Approved for public release;

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TABLE I. Salient characteristics.

	Maximum	Minimum
Specific gravity		2.3
Thermal conductivity		0.0005
Penetration	320	250
Bleed	1.0	
Evaporation	2.0	

Contractor certification. The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this Commercial Item Description, and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices. The government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, provided they fall within specified tolerances using conversion tables contained in the latest revision of FED-STD-376, and all other requirements of this Commercial Item Description are met. If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch/pound units, a request should be made to the contracting officer to determine if the product is acceptable. The contracting officer has the option of accepting or rejecting the product.

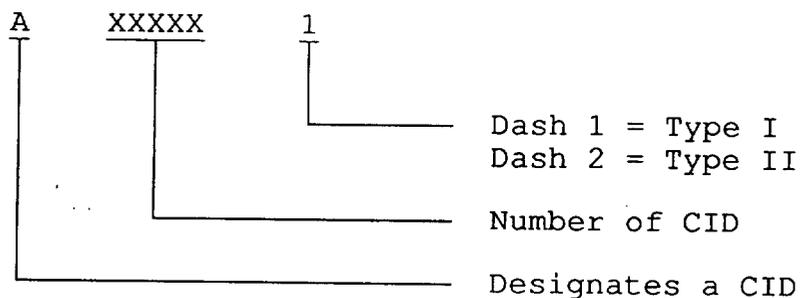
Regulatory requirements. The offeror/contractor is encouraged to use recovered materials IAW Public Law 94-580 to the maximum extent practical.

Preservation, packaging, packing, labeling, and marking. The preservation, packaging, packing, labeling, and marking shall be as specified in the contract or order.

CID-based part identification number. The following part identification number procedure is for government purposes and does not constitute a requirement for the contractor.

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Example of part identification number AXXXXX-1



Notes:

a. Types. The purchaser should specify the type in the contract or purchase order.

Type I - Silicone (Dimethyl polysiloxane)
Type II - Non-Silicone (Polyol Ester)

b. Source for referenced documents. VV-D-1078 and FED-STD-376 may be obtained by sending a request for copies to the Standardization Documents Order Desk, Bldg. 4D, 700 Robbins Ave., Philadelphia, PA 19111-5094.

c. Source of supply. This product is currently available commercially as shown below:

<u>Vendor</u>	<u>Brand name</u>	<u>Part number</u>
R.H. Carlson Co., Inc. 41 Chestnut Street Greenwich, CT 06830	Norsil	SG841
Non Fluid Oil Corp. 298 Delancy Street Newark, NJ 07105-3009	Chemplex 1381	CHEMPLEX 1381
Accumetric Inc. 350 Ring Road Elizabethtown, KY 42701	Boss 430	C19001WH
Dow Corning Corp 2200 W. Salburg Road P.O. Box 997 Midland, MI 48686-0997	Dow Corning 340	DOWCORNING340

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MILITARY INTERESTS:

Custodian:
Army - MI

Review Activity:
DLA - GS

Civil Agency Coordinating Activity:
GSA-9FTE-10

Preparing Activity:
Army - MI

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