

INCH-POUND

A-A-59912

September 11, 2012

COMMERCIAL ITEM DESCRIPTION

HEAT SEALER, IMPULSE

The General Services Administration has authorized the use of this commercial item description, for all federal agencies.

1. **SCOPE.** This commercial item description covers impulse heat sealers capable of sealing odor barrier bags used in submarine plastic waste processing.

2. **SALIENT CHARACTERISTICS.**

2.1 **Sealer performance parameters.** Heat seals produced by the heat sealer unit on the Type II odor barrier bags, as specified by MIL-PRF-29597, shall be pull tested per method specified in ASTM F88/F88M, and meet or exceed the minimum peel strength of 2,500 PSI. Seals produced shall not have any burn marks, excessively melted surfaces, or open voids in the material surface.

2.2 **Sealer mechanism.** The heat sealer unit shall use dual heating elements (one element per jaw) to provide the sealing heat. The impulse heat shall be generated when an electric current flows through the heating elements as unit is activated by user. An electric current shall heat the heating element for a specified time to create the required seal as specified in 2.1.

2.3 **Seal dimensions.** The heat sealer unit shall provide a continuous seal with a minimum seal length of 18 inches not to exceed 20 inches, and a seal width ranging between a minimum of $\frac{3}{16}$ inch to $\frac{1}{2}$ inch. When the bag material is placed in the heat sealer, the bag opening shall be held stable by the sealing jaw.

2.3 **Portability.** The heat sealer shall be hand-held, light-weight, and portable, and allow the user to bring the sealer opening to the target bag for heat sealing, with the ability to position the sealer opening in any direction. The heat sealer jaw shall not be table supported.

2.4 **Sealer operation.** The following characteristics are required during the sealer operation:

- a. The heat seal operation shall be activated by an activation switch located directly on the heat sealer handle.
- b. The sealer shall have factory preset temperature and time settings in order to provide the required seal as specified in 2.1. The preset settings shall be made inaccessible to the user.
- c. An indicator light indicating completion of sealing operation shall be mounted on the heat sealer handle or power supply.
- d. The sealing operation shall not require more than one (1) person to perform the heat seal.

2.5 **Dimension and weight.** The heat sealer unit dimensions and weight shall not exceed the following:

- a. Sealer jaw handset.
 - (1) Overall jaw length – 21 inches.
 - (2) Overall jaw height – 11 inches.
 - (3) Overall hand grip length – 11 inches.
 - (4) Weight – 5 pounds.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data that may improve this document should be sent to: Commander, Naval Sea Systems Command, ATTN: SEA 05S, 1333 Isaac Hull Avenue, SE, Stop 5160, Washington Navy Yard DC 20376-5160 or emailed to CommandStandards@navy.mil, with the subject line "Document Comment". Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at <https://assist.dla.mil>.

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- b. Control box.
 - (1) Overall depth – 12 inches.
 - (2) Overall width – 7 inches.
 - (3) Overall height – 8 inches.
 - (4) Weight – 20 pounds.
- c. Cable lengths.
 - (1) Control box to power source cable length – 102 inches.
 - (2) Handset to control box cable length – 185 inches.
- d. Total weight of sealer handset, control box, and cables – 26 pounds.

2.6 Power requirements.

- a. The unit shall be electrically powered, capable of operating on 110 – 115 volts, 60 hertz, 15 amps.
- b. Electrical components (heating elements, wires, etc.) and connections shall be insulated and/or covered to minimize and prevent the risk of electrical shock.

2.7 Replaceable components. The following heat sealer components are to be easily removable for replacement of damaged or worn items:

- a. The dual heating elements (one element per jaw) shall be removable for replacement of worn or damaged heating elements.
- b. The sealer jaw assembly shall have a power cable with a quick disconnect or bayonet type connector end for replacement of either the sealer jaw assembly or the power supply control box.

3. PRODUCT CONFORMANCE PROVISIONS.

3.1 Product conformance. The products provided shall meet the salient characteristics of this Commercial Item Description, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial marketplace. The government reserves the right to require proof of such conformance.

4. PACKAGING. Preservation, packing, and marking shall be as specified in the contract or order.

5. NOTES.

5.1 Source of documents.

5.1.1 ASTM. ASTM standards are available from ASTM International, 100 Barr Harbor Dr., P.O. Box C700, West Conshohocken, PA 19428-2959 or online at www.astm.org.

5.1.2 Defense specifications. Defense specifications are available online at <https://assist.dla.mil/quicksearch/> or <https://assist.dla.mil>.

5.2 Ordering data. The contract or order should specify the following:

- a. CID document number and revision.
- b. Product conformance provisions.
- c. Packaging requirements.
- d. Requirements for manuals, handbooks, and/or brochures containing complete operation and service/maintenance instructions.

5.3 National stock numbers (NSNs). The following is a list of NSNs assigned that correspond to this CID. The list may not be indicative of all possible NSNs associated with the CID:

- a. 3540-01-529-1460, Sealing Machine.
- b. 8105-01-525-0531, Odor Barrier Bag.

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5.4 Key words.

Machine, heat seal, thermal

MILITARY INTERESTS

Custodians:

Army – GL
Navy – SH
Air Force – 99

Review Activities:

Navy – AS, CG, SA
Air Force – 03, 84
DLA – IS

CIVIL AGENCY COORDINATING ACTIVITY:

GSA – FAS

Preparing Activity:

Navy – SH
(Project 3540-2012-001)

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