

APPENDIX 4-A

STORAGE OF DIAMONDS

1. *Description*

a. Industrial diamonds were received in the stockpile as dies, stones, or bort.

(1) *Diamond Dies*. An industrial diamond stone that has been pierced to form a small hole to permit its use as a die for drawing wire into extremely small sizes with a constant diameter.

(2) *Diamond Stones*. Stones not suitable as gems, but have a broad range of uses where their cutting, grinding, or polishing qualities are desired. Stones are broken down into the following classes:

- (a) Drilling Stones
- (b) Thread and Gear Grinders
- (c) Tool Stones and Dressers
- (d) Grinding Wheel Dressers
- (e) Shaping, Boring and Turning Tools
- (f) Points and Elongated Stones
- (g) Flats and Macles
- (h) Wire Dies
- (i) Indenters
- (j) Ballas
- (k) Carbons

c. *Diamond Bort*. A diamond powder used for polishing, lapping, and as the cutting agent used in drilling very small holes in hard materials. Bort can be classified as either fragmented or unfragmented.

d. When acquired, industrial diamonds shall meet Purchase Specification P-19-R2 (Current Edition).

2. *Packaging*. Industrial diamonds will be packed in either envelopes or bags which will be stored in various size metal ammunition boxes.

3. *Marking*. All bags and envelopes will be marked with their contract number, class, size and lot number. All ammunition boxes will be numbered and contents identified to facilitate inventory.

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4. *Storage*

- a. All industrial diamonds will be stored in a dry, unsprinklered, security vault.
- b. Segregation in storage will be by class.
- c. Stacking will be on multi-tiered metal shelving. Only one class is permitted on a single shelf. A complete description of the class on a shelf will be indicated on a card which shall be prominently displayed and secured to each shelf.

5. *Precautions To Be Taken*

- a. *Health.* None.
- b. *General.* When handling, shipping or storing any industrial diamonds, extreme care shall be used at all times to make sure no material is lost or stolen. Accountability will be maintained at all times.

6. *Security*

- a. All metal ammunition boxes are to be sealed with lead or button seals to maintain the integrity of the box contents.
- b. Entry into vault areas for the purpose of shipments, inventory or qualitative maintenance inspections will be documented by issuance of custodial reports.
- c. Vault Custodians controlling access to the vault area will have a secret clearance.
- d. All shipments will be accompanied as high security cargo. Hand to hand signature with pick-up and delivery within the doors of the respective premises for each transaction is required.
- e. Under no circumstances shall industrial diamonds be moved from their original place of storage without prior authorization.

7. *Shipping*

See vault procedures Chapter 4-D

FOR ADDITIONAL INFORMATION ON THIS COMMODITY REFER TO THE MATERIAL SAFETY DATA SHEET OR THE MOST RECENT PURCHASE SPECIFICATION.