

**APPENDIX 4-A****STORAGE OF CHROMITE  
(Chemical - Metallurgical - Refractory)***1. Description*

a. Chemical grade chromite is an ore with a submetallic to metallic luster, ranging in color from iron-black to brownish black. The material is of a friable nature and ranges in size from fine, granular to large lumps. Because of its friable nature, there may eventually be a predominance of fine material. When acquired, chemical grade chromite shall meet Purchase Specification P-65 (Current Edition).

b. Metallurgical grade chromite is an ore with a submetallic to metallic luster, ranging in color from iron-black to brownish black. The material ranges in size from fine, granular to large hard lumps. It may be received for storage in any of the following three types:

(1) Lumps

(2) Fines

(3) Concentrates

c. When acquired, metallurgical grade chromite shall meet Purchase Specification P-11 (Current Edition).

d. Refractory grade chromite is an ore having a submetallic to metallic luster and ranging in color from iron-black to brownish black. The material ranges in size from fine granular to large, hard lumps. When acquired, refractory grade chromite shall meet Purchase Specification P-12 (Current Edition).

*2. Packaging.* All grades of chromite are shipped in bulk.

*3. Marking.* Two metal embossed pile signs, with the pile number, material name, country of origin and major elements as specified by the DNSC-OL, shall be placed at each end of the pile.

*4. Storage*

a. Chromite shall be stored on open improved space equivalent to Types C or E as described in Chapter 4 of this Manual. Prior to forming new piles, any special work required, such as preparation of the pad, and installation of curbing for barriers, will be approved by the DNSC-OL.

b. Material will be segregated into piles by grade, type, and country of origin, as reflected on receiving reports, and as indicated on instructions issued by the DNSC-OL, at which time pile numbers will be assigned by the depot.

*5. Precautions To Be Taken*

a. *Health.* Dust should be minimized during receipt and/or outloading of ore.

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b. *General.* Bulk piles of chromite concentrates for chemical use stored in the open should be covered, and chromite lumpy ores for chemical use showing evidence of disintegration and erosion losses should be covered when so authorized by the DNSC-OL, in accordance with the requirements of Container Specifications for Laminated Covering for Fluorspar-Acid Grade, Chromite Concentrates, and Manganese Concentrates, C-9.

6. *Average Storage Factor*

*National Stockpile Average Square Foot Occupancy.* 4 square feet per short ton.

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