

## **CHAPTER 36 FLAMMABLE SOLIDS**

### **SECTION FC 3601 GENERAL**

**3601.1 Scope.** This chapter shall govern the storage, handling and use of flammable solids.

**3601.2 Permits.** Permits shall be required as set forth in FC105.6.

**3601.3 General.** Flammable solids shall be stored, handled and used in accordance with this chapter.

**3601.4 Supervision.** The handling and use of flammable solids in quantities requiring a permit shall be performed under the personal supervision of a person holding a certificate of fitness. The storage of flammable solids in quantities requiring a permit shall be under the general supervision of a person holding a certificate of fitness.

### **SECTION FC 3602 DEFINITIONS**

**3602.1 Definitions.** The following term shall, for the purposes of this chapter and as used elsewhere in this code, have the meaning shown herein.

**FLAMMABLE SOLID.** A solid, other than a blasting agent or other explosive, whether in elemental or alloy form, that is capable of causing fire through friction, absorption or moisture, spontaneous chemical change, or heat retained from manufacturing or processing, or which has an ignition temperature below 212°F (100°C) or which burns so vigorously and persistently when ignited as to create a serious hazard. A chemical shall be considered a flammable solid if upon testing using the method prescribed in CPSC regulations, as set forth in 16 CFR Section 1500.44, it ignites and burns with a self-sustained flame at a rate greater than 0.1 inch (2.5 mm) per second along its major axis.

### **SECTION FC 3603 GENERAL REQUIREMENTS**

**3603.1 Quantities not exceeding the maximum allowable quantity per control area.** The storage, handling and use of flammable solids in amounts not exceeding the maximum allowable quantity per control area as indicated in FC2703.1 shall be in accordance with FC 2701, 2703, 3601 and this section.

**3603.2 Quantities exceeding the maximum allowable quantity per control area.** The storage, handling and use of flammable solids exceeding the maximum allowable quantity per control area as indicated in FC2703.1 shall be in accordance with FC Chapter 27, this chapter, and NFPA 484.

## SECTION FC 3604 STORAGE

**3604.1 Indoor storage.** Indoor storage of flammable solids in amounts exceeding the maximum allowable quantity per control area indicated in FC Table 2703.1.1(1) shall be in accordance with FC 2701, 2703, 2704, this chapter, and NFPA 484.

**3604.1.1 Pile size limits and location.** Flammable solids stored in quantities greater than 1,000 cubic feet (28 m<sup>3</sup>) shall be separated into piles each not larger than 1,000 cubic feet (28 m<sup>3</sup>).

**3604.1.2 Aisles.** Aisle widths between piles shall not be less than the height of the piles or 10 feet (3048 mm), whichever is greater.

**3604.1.3 Basement storage.** Flammable solids shall not be stored in basements or other areas below grade.

**3604.2 Outdoor storage.** Outdoor storage of flammable solids in amounts exceeding the maximum allowable quantities per control area indicated in FC Table 2703.1.1(3) shall be in accordance with FC 2701, 2703, 2704, this chapter, and NFPA 484.

**3604.2.1 Distance from storage to exposures.** Outdoor storage of flammable solids shall not be located within 20 feet (6096 mm) of a building, lot line, public street, private road or means of egress. A 2-hour fire barrier without openings or penetrations and extending 30 inches (762 mm) above and to the sides of the storage area is allowed in lieu of such distance. The fire barrier shall either be an independent structure, or the exterior wall of the building adjacent to the storage area.

**3604.2.2 Pile size limits.** Outdoor storage of flammable solids shall be separated into piles not larger than 5,000 cubic feet (141 m<sup>3</sup>) each. Piles shall be separated by aisles with a minimum width of not less than one-half the pile height or 10 feet (3048 mm), whichever is greater.

**3604.3 Combustible material and combustible waste.** Combustible material and combustible waste, including packing materials and oily rags, shall not be stored in the same area as that where solid combustible metal scraps or powders are stored.

## SECTION FC 3605 HANDLING AND USE

**3605.1 General.** The handling and use of flammable solids in amounts exceeding the maximum allowable quantity per control area indicated in FC Table 2703.1.1(1) or 2703.1.1(3) shall be in accordance with FC 2701, 2703, 2705, this chapter, and NFPA 484.