

## CHAPTER 13

# COMBUSTIBLE DUST-PRODUCING OPERATIONS

### SECTION 1301 GENERAL

**1301.1 Scope.** The equipment, processes and operations involving dust explosion hazards shall comply with the provisions of this chapter.

**1301.2 Permits.** Permits shall be required for combustible dust-producing operations as set forth in Section 105.6.

### SECTION 1302 DEFINITIONS

**1302.1 Definition.** The following word and term shall, for the purposes of this chapter and as used elsewhere in this code, have the meaning shown herein.

**COMBUSTIBLE DUST.** Finely divided solid material which is 420 microns or less in diameter and which, when dispersed in air in the proper proportions, could be ignited by a flame, spark or other source of ignition. Combustible dust will pass through a U.S. No. 40 standard sieve.

### SECTION 1303 PRECAUTIONS

**1303.1 Sources of ignition.** Smoking or the use of heating or other devices employing an open flame, or the use of spark-producing equipment is prohibited in areas where combustible dust is generated, stored, manufactured, processed or handled.

**1303.1.1 Static accumulation.** When processes or conditions exist where combustible dust could be ignited by static electricity, means shall be provided to prevent the accumulation of a static charge.

**1303.2 Housekeeping.** Accumulation of combustible dust shall be kept to a minimum in the interior of buildings. Accumulated combustible dust shall be collected by vacuum cleaning or other means that will not place combustible dust into suspension in air. Forced air or similar methods shall not be used to remove dust from surfaces.

### SECTION 1304 EXPLOSION PROTECTION

**1304.1 Standards.** The fire code official is authorized to enforce applicable provisions of the codes and standards listed in Table 1304.1 to prevent and control dust explosions.

TABLE 1304.1  
EXPLOSION PROTECTION STANDARDS

STANDARD	SUBJECT
NFPA 61	Agricultural and Food Products
NFPA 69	Explosion Prevention
NFPA 85	Boiler and Combustion Systems Hazards
NFPA 120	Coal Preparation Plants
NFPA 480	Magnesium Solids and Powders
NFPA 481	Titanium
NFPA 482	Zirconium
NFPA 650	Conveying Combustible Particulate Solids
NFPA 651	Aluminum Powder
NFPA 654	Manufacturing, Processing and Handling of Combustible Particulate Solids
NFPA 655	Sulfur
NFPA 664	Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities
ICC <i>Electrical Code</i>	Electrical Installations

