

(b) Time constant of the circuit (defined as $T=L/R$, where T is the time in seconds, L is the inductance in henries, and R is the resistance in ohms) shall be as follows:

(1) For 10,000 amperes and greater currents, $T=0.016$ second or more;

(2) For 1,000 amperes to 10,000 amperes, $T=0.008$ second or more;

(3) For 100 amperes to 1,000 amperes, $T=0.006$ second or more; and

(4) For less than 100 amperes, $T=0.002$ seconds or more.

(c) Test currents shall be as follows:

(1) 200 percent of rated current for fuses having 200 or less ampere rating, or 300 percent of rated current for fuses having greater than 200 ampere rating;

(2) 900 percent of rated current;

(3) 10,000 amperes; and

(4) 20,000 amperes.

(d) The voltage shall continue to be applied for at least 30 seconds after completion of circuit interruption.

(e) Five fuses of each case size shall be tested at each test current specified in paragraph (c) of this section, with the value of the fuse being the maximum value for the case size.

(f) Three of each lot of five fuses shall be preconditioned at 95 ± 5 percent RH for not less than 5 days immediately prior to testing; and the other two fuses of each lot of five shall be preconditioned by heating to 90°C . for 24 hours, and tested within 1 hour after removal from the preconditioning chamber.

(g) At least three of each lot of five fuses shall be tested in a fuse holder of a trolley-tap type, and the fuse holder shall remain intact and shall readily accept and retain a replacement fuse.

PART 33—DUST COLLECTORS FOR USE IN CONNECTION WITH ROCK DRILLING IN COAL MINES

Subpart A—General Provisions

- Sec.
- 33.1 Purpose.
 - 33.2 Definitions.
 - 33.3 Consultation.
 - 33.4 Types of dust collectors for which certificates of approval may be granted.
 - 33.5 [Reserved]
 - 33.6 Applications.
 - 33.7 Date for conducting tests.
 - 33.8 Conduct of investigations, tests, and demonstrations.

33.9 Certification of dust-collecting systems.

33.10 Certificates of approval or performance.

33.11 Approval plates.

33.12 Changes after certification.

33.13 Withdrawal of certification.

Subpart B—Dust-Collector Requirements

33.20 Design and construction.

33.21 Modification of test equipment.

33.22 Mode of use.

33.23 Mechanical positioning of parts.

Subpart C—Test Requirements

33.30 Test site.

33.31 Test space.

33.32 Determination of dust concentration.

33.33 Allowable limits of dust concentration.

33.34 Drilling test.

33.35 Methods of drilling; dust-collector unit.

33.36 Method of drilling; combination unit or dust-collecting system.

33.37 Test procedure.

33.38 Electrical parts.

AUTHORITY: 30 U.S.C. 957, 961.

SOURCE: Schedule 25B, 25 FR 6473, July 9, 1960, unless otherwise noted.

Subpart A—General Provisions

§ 33.1 Purpose.

The regulations in this part set forth the requirements for dust collectors used in connection with rock drilling in coal mines to procure their certification as permissible for use in coal mines; procedures for applying for such certification; and fees.

§ 33.2 Definitions.

As used in this part:

(a) *Permissible*, as applied to a dust collector, means that it conforms to the requirements of this part, and that a certificate of approval to that effect has been issued.

(b) *Bureau* means the United States Bureau of Mines.

(c) *Certificate of approval* means a formal document issued by MSHA stating that the dust collector unit or combination unit has met the requirements of this part, and authorizing the use and attachment of an official approval plate or a marking so indicating.