

Regulation No. 24 Control of Volatile Organic Compound Emissions

Section 21 - Coating of Magnet Wire.

11/29/94

a. Applicability.

1. This Section applies to any magnet wire coating unit.
2. This Section does not apply to any magnet wire coating unit within a facility whose emissions without control devices from all magnet wire coating units within the facility are less than 6.8 kilograms (kg) (15 pounds [lb]) of volatile organic compounds (VOCs) per day.
3. An owner or operator of a facility whose emissions are below the applicability threshold in paragraph (a)(2) of this Section shall comply with the certification, recordkeeping, and reporting requirements of paragraph (g)(1) of this Section.
4. Any facility that becomes or is currently subject to the provisions of this Section by exceeding the applicability threshold in paragraph (a)(2) of this Section will remain subject to these provisions even if its emissions later fall below the applicability threshold.
5. Any facility that is currently subject to a state or federal rule promulgated pursuant to the Clean Air Act Amendments of 1977 by exceeding an applicability threshold is and will remain subject to these provisions, even if its throughput or emissions have fallen or later fall below the applicability threshold.

- b. Definitions. As used in this Section, all terms not defined herein shall have the meaning given them in the November 15, 1990 Clean Air Act Amendments (CAAA), or in Section 2 of this regulation.

"Magnet wire coating unit" means a coating unit in which an electrically insulating varnish or enamel is applied onto the surface of wire for use in electrical machinery.

c. Standards.

1. No owner or operator of a magnet wire coating unit subject to this Section shall cause or allow the use of any coating with VOC content in excess of 0.20 kilograms per liter (kg/L) (1.7 pounds per gallon [lb/gal]) of coating, excluding water and exempt compounds, as applied.
2. As an alternative to compliance with the emission limit in paragraph (c)(1) of this Section, an owner or operator of a magnet wire coating unit subject to this Section may meet the requirements of paragraph (d) or (e) of this Section.

- d. Daily-weighted average limitation. No owner or operator of a magnet wire coating unit subject to this Section shall apply, during any day, coatings on that unit whose daily-weighted average VOC content, calculated in accordance with the procedure specified in **Appendix "C"** of this regulation, exceeds the emission limit in paragraph (c)(1) of this Section.
- e. Control devices.
1. An owner or operator of a magnet wire coating unit subject to this Section may comply with this Section by:
 - i. Installing and operating a capture system on that unit.
 - ii. Installing and operating a control device on that unit.
 - iii. Determining for each day the overall emission reduction efficiency needed to demonstrate compliance. The overall emission reduction needed for a day is the lesser of the value calculated according to the procedure in **Appendix "C"** (c) of this regulation for that day or 95 percent.
 - iv. Demonstrating each day that the overall emission reduction efficiency achieved for that day, as determined in **Appendix "D"** (c) of this regulation, is greater than or equal to the overall emission reduction efficiency required for that day.
 2. An owner or operator of a magnet wire coating unit subject to this Section shall ensure that:
 - i. A capture system and control device are operated at all times that the unit is in operation, and the owner or operator demonstrates compliance with this Section through the applicable coating analysis and capture system and control device efficiency test methods specified in **Appendix "B"**, **Appendix "D"** and **Appendix "E"** of this regulation and in accordance with the capture efficiency test methods in **Appendix "D"**.
 - ii. The control device is equipped with the applicable monitoring equipment specified in **Appendix "D"** (b) of this regulation, and the monitoring equipment is installed, calibrated, operated, and maintained according to the vendor's specifications at all times the control device is in use.

- f. Test methods. The test methods found in **Appendix "A"** through **Appendix "D"** of this regulation shall be used to determine compliance with this Section.
- g. Recordkeeping and reporting.
1. An owner or operator of a magnet wire coating unit that is exempt from the emission limitations in paragraph (c) of this Section shall comply with the certification, recordkeeping, and reporting requirements in Section 4(b) of this regulation.
 2. An owner or operator of a magnet wire coating unit subject to this Section and complying with paragraph (c) of this Section by the use of complying coatings shall comply with the certification, recordkeeping, and reporting requirements in Section 4(c) of this regulation.
 3. An owner or operator of a magnet wire coating unit subject to this Section and complying with paragraph (d) of this Section by daily-weighted averaging shall comply with the certification, recordkeeping, and reporting requirements in Section 4(d) of this regulation.
 4. An owner or operator of a magnet wire coating unit subject to this Section and complying with paragraph (e) of this Section by the use of control devices shall comply with the testing, reporting, and recordkeeping requirements in Section 4(e) of this regulation.