

Chapter NR 221

ASBESTOS MANUFACTURING

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NR 221.01 Purpose. The purpose of this chapter is to establish effluent limitations, standards of performance, and pretreatment standards for discharges of process wastes from the asbestos manufacturing category of point sources and subcategories thereof.

Note: The authority for promulgation of this chapter is set forth in ch. NR 205.

History: Cr. Register, June, 1976, No. 246, eff. 7-1-76.

NR 221.02 Applicability. The effluent limitations, standards of performance, pretreatment standards, and other provisions in this chapter are applicable to pollutants or pollutant properties in discharges of process waste resulting from manufacture or activities in any of the following subcategories.

c1d ASBESTOS - CEMENT PIPE. This subcategory covers the manufacture of pipe using asbestos, portland cement, silica, and other ingredients.

c2d ASBESTOS - CEMENT SHEET. This subcategory covers the manufacture of sheets using asbestos, portland cement, silica, and other ingredients excluding the manufacture of sheet laboratory tops.

c3d ASBESTOS PAPER - STARCH BINDER. This subcategory covers the manufacture of asbestos paper using asbestos, starch binders, and other ingredients.

c4d ASBESTOS PAPER - ELASTOMERIC BINDER. This subcategory covers the manufacture of asbestos paper using asbestos, elastomeric binders, and other ingredients.

c5d ASBESTOS MILLBOARD. This subcategory covers the manufacture of asbestos millboard using asbestos in combination with other materials such as cement, starch, clay, lime, and mineral wool.

c6d ASBESTOS ROOFING. This subcategory covers the manufacture of roofing products by saturating asbestos paper with asphalt or coal tar and applying various surface treatments.

c7d ASBESTOS FLOOR TILE. This subcategory covers the manufacture of asbestos floor tile using asbestos, polyvinyl chloride resin, chemical stabilizers, limestone, and other fillers.

c8d ASBESTOS TEXTILES, COATING OR FINISHING. This subcategory covers the process of coating or impregnating asbestos textiles with materials to impart specific desired qualities to the finished product.

c9d SOLVENT RECOVERY. This subcategory covers the process of solvent recovery in the manufacture of asbestos products.

c10d VAPOR ABSORPTION. This subcategory covers the process of removing volatilized organic materials from atmospheric emissions by means of wet scrubbers.

c11d WET DUST COLLECTION. This subcategory covers the process of removing dust (particulates) from atmospheric emissions by means of wet scrubbers.

History: Cr. Register, June, 1976, No. 246, eff. 7-1-76.

NR 221.03 Definitions. The following definitions are applicable to terms used in this chapter. Definitions of other terms and meanings of abbreviations are set forth in ch. NR 205.

c1d XCODY means COD added to the process wastewater.

c2d XMpcY means 1,000 pieces of floor tile.

c3d XPiecesY means floor tile in the standard 12x12x3/32 inch size.

c4d XStdY means standard conditions for measuring gas volume.

History: Cr. Register, June, 1976, No. 246, eff. 7-1-76.

NR 221.04 Compliance with effluent limitations and standards. Discharge of pollutants from facilities subject to the provisions of this chapter may not exceed, as appropriate:

c1d By July 1, 1977 effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available;

c2d By July 1, 1983 effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable;

c3d Pretreatment standards for discharges to publicly owned treatment works;

c4d Standards of performance for new sources.

History: Cr. Register, June, 1976, No. 246, eff. 7-1-76; r. and recr. Register, August, 1983, No. 332, eff. 9-1-83.

NR 221.06 Application of effluent limitations and standards. **c1d** The effluent limitations and standards set forth in this chapter shall be used in accordance with this section to establish the quantity or quality of pollutants or pollutant properties which may be discharged by a point source subject to the provisions of this chapter, except as:

cad They may be modified in accordance with subch. IV of ch. NR 220,

cbd They may be superseded by more stringent limitations and standards necessary to achieve water quality standards or meet other legal requirements, or

ccd They may be supplemented or superseded by standards or prohibitions for toxic pollutants or by additional limitations for other pollutants required to achieve water quality.

c2d The production basis for application of the limitations and standards set forth in this chapter shall be the daily average of a maximum month in each subcategory subject to the provisions of this chapter.

History: Cr. Register, June, 1976, No. 246, eff. 7-1-76; correction in c1d cad made under s. 13.92 c4d cbd 7, Stats., Register April 2018 No. 748.

NR 221.10 Effluent limitations, best practicable treatment. The following effluent limitations for all or specific subcategories establish, except as provided in subch. IV of ch. NR 220, the quantity or quality of pollutants or pollutant proper-

ties which may be discharged by a facility subject to the provisions of this chapter after application to process wastes of the best practicable control technology currently available.

c1d For subcategories c5d, c8d and c10d identified in s. NR 221.02 there shall be no discharge of process wastewaters to surface waters.

c2d The pH of all discharges shall be within the range of 6.0 to 9.0.

c3d The 30-day average and daily maximum limitations for suspended solids and COD are set forth in table 1:

cad For subcategories c1d, c2d, c3d, c4d, c6d and c9d in lbs{ 1000 lbs. or kg{ 1000 kg of product,

cbd For subcategory c7d in lbs{Mpc and below that in parenthesis in kg{Mpc, and

ccd For subcategory c11d in lbs{million std. cu. ft. and below that in parenthesis in kg{ 1000 std. cu. m. of air scrubbed.

**TABLE 1
BPT EFFLUENT LIMITATIONS**

Subcategory*	Suspended Solids		COD	
	Average	Maximum	Average	Maximum
1	0.19	0.57		
2	0.23	0.68		
3	0.35	0.55		
4	0.35	0.55		
6	0.006	0.01	0.008	0.015
7	0.08	0.013	0.18	0.30
9	c0.04d	c0.06d	c0.09d	c0.14d
11	0.09	0.18	0.15	0.30
	2.50	5.0		
	c0.04d	c0.08d		

*Subcategories are as identified in s. NR 221.02.

History: Cr. Register, June, 1976, No. 246, eff. 7-1-76; correction in cintro.d made under s. 13.92 c4d cbd 7, Stats., Register April 2018 No. 748.

NR 221.11 Effluent limitations, best available treatment. The following effluent limitations for all or specific subcategories establish the quantity or quality of pollutants or pollutant properties which may be discharged by a facility subject to the provisions of this chapter after application to process wastes of the best available technology economically achievable.

c1d For subcategory c9d identified in s. NR 221.02 the pH of all discharges shall be within the range of 6.0 to 9.0 and the 30-day average and daily maximum limitations for suspended solids and COD are set forth in table 1 in lbs{ 1000 lbs or kg{ 1000 kg of product.

c2d For all other subcategories subject to the provisions of this chapter there shall be no discharge of process wastewaters to surface waters.

History: Cr. Register, June, 1976, No. 246, eff. 7-1-76.

NR 221.12 Standards of performance. The following effluent limitations for all or specific subcategories establish the quantity or quality of pollutants or pollutant properties which may be discharged by a facility which is a new source subject to the provisions of this chapter.

c1d For subcategories c1d, c4d and c9d identified in s. NR 221.02 the pH of all discharges shall be within the range of 6.0 to 9.0 and the 30-day average and maximum daily limitations for COD, suspended solids as are set forth in table 1 in lbs{ 1000 lbs or kg{ 1000 kg of product.

c2d For all other subcategories subject to the provisions of this chapter there shall be no discharge of process wastewaters to surface waters.

History: Cr. Register, June, 1976, No. 246, eff. 7-1-76.

NR 221.13 Pretreatment standards. The pretreatment standards for discharges to publicly owned treatment works from

sources subject to the provisions of this chapter shall be as set forth in ch. [NR 211](#).

History: Cr. [Register, June, 1976, No. 246](#), eff. 7-1-76; r. and recr. [Register, August, 1983, No. 322](#), eff. 9-1-83.