

**§ 464.16**

**40 CFR Ch. I (7-1-00 Edition)**

**PSES**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
kg/1,000 kkg (pounds per million pounds) of metal poured		
Copper (T) .....	0.0771	0.0421
Lead (T) .....	0.0791	0.039
Zinc (T) .....	0.114	0.0431

**(b) Casting Quench Operation.**

**PSES**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
kg/1,000 kkg (pounds per million pounds) of metal poured		
Copper (T) .....	0.0093	0.0051
Lead (T) .....	0.0096	0.0047
Zinc (T) .....	0.0138	0.0052
TTO .....	0.029	0.0095
Oil and grease (for alternate monitoring) .....	0.363	0.121

**(c) Die Casting Operations.**

**PSES**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
kg/1,000 kkg (pounds per million pounds) of metal poured		
Copper (T) .....	0.0066	0.0036
Lead (T) .....	0.0068	0.0034
Zinc (T) .....	0.0098	0.0037
Total phenols .....	0.0074	0.0026
TTO .....	0.0308	0.01
Oil and grease (for alternate monitoring) .....	0.259	0.0864

**(d) Dust Collection Scrubber Operations.**

**PSES**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
kg/62.3 million Sm <sup>3</sup> (pounds per billion SCF) of air scrubbed		
Copper (T) .....	0.231	0.126
Lead (T) .....	0.237	0.117
Zinc (T) .....	0.343	0.129
Total phenols .....	0.258	0.09
TTO .....	0.613	0.2
Oil and grease (for alternate monitoring) .....	9.01	3.00

**(e) Grinding Scrubber Operations.** No discharge of process wastewater pollutants to a POTW.

**(f) Investment Casting.**

**PSES**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
kg/1,000 kkg (pounds per million pounds) of metal poured		
Copper (T) .....	8.48	4.63
Lead (T) .....	8.7	4.3
Zinc (T) .....	12.6	4.74
TTO .....	18.1	5.91
Oil and grease (for alternate monitoring) .....	330	110

**(g) Melting Furnace Scrubber Operations.**

**PSES**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
kg/62.3 million Sm <sup>3</sup> (pounds per billion SCF) of air scrubbed		
Copper (T) .....	3.01	1.64
Lead (T) .....	3.09	1.52
Zinc (T) .....	4.45	1.68
Total phenols .....	3.36	1.17
TTO .....	7.97	2.6
Oil and grease (for alternate monitoring) .....	117	39.1

**(h) Mold Cooling Operations.**

**PSES**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
kg/1,000 kkg (pounds per million pounds) of metal poured		
Copper (T) .....	0.297	0.162
Lead (T) .....	0.305	0.151
Zinc (T) .....	0.44	0.166
TTO .....	0.935	0.304
Oil and grease (for alternate monitoring) .....	11.6	3.86

[50 FR 45247, Oct. 30, 1985; 51 FR 21760, June 16, 1986]

**§ 464.16 Pretreatment standards for new sources.**

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into publicly owned treatment works must

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comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources.

(a) *Casting Cleaning Operations.*

**PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
kg/1,000 kkg (pounds per million pounds) of metal poured		
Copper (T) .....	0.0771	0.0421
Lead (T) .....	0.0791	0.039
Zinc (T) .....	0.114	0.0431

(b) *Casting Quench Operations.*

**PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
kg/1,000 kkg (pounds per million pounds) of metal poured		
Copper (T) .....	0.0093	0.0051
Lead (T) .....	0.0096	0.0047
Zinc (T) .....	0.0138	0.0052
TTO .....	0.029	0.0095
Oil and grease (for alternate monitoring) .....	0.363	0.121

(c) *Die Casting Operations.*

**PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
kg/1,000 kkg (pounds per million pounds) of metal poured		
Copper (T) .....	0.0066	0.0036
Lead (T) .....	0.0068	0.0034
Zinc (T) .....	0.0098	0.0037
Total Phenols .....	0.0074	0.0026
TTO .....	0.0308	0.01
Oil and grease (for alternate monitoring) .....	0.259	0.0864

(d) *Dust Collection Scrubber Operations.*

**PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
kg/62.3 million Sm <sup>3</sup> (pounds per billion SCF) of air scrubbed		
Copper (T) .....	0.231	0.126
Lead (T) .....	0.237	0.117
Zinc (T) .....	0.343	0.129
Total Phenols .....	0.258	0.09
TTO .....	0.613	0.2
Oil and grease (for alternate monitoring) .....	9.01	3.0

(e) *Grinding Scrubber Operations.* No discharge of process wastewater pollutants to a POTW.

(f) *Investment Casting.*

**PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
kg/1,000 kkg (pounds per million pounds) of metal poured		
Copper (T) .....	8.48	4.63
Lead (T) .....	8.7	4.3
Zinc (T) .....	12.6	4.74
TTO .....	18.1	5.91
Oil and grease (for alternate monitoring) .....	330	110

(g) *Melting Furnace Scrubber Operations.*

**PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
kg/62.3 million Sm <sup>3</sup> (pounds per billion SCF) of air scrubbed		
Copper (T) .....	3.01	1.64
Lead (T) .....	3.09	1.52
Zinc (T) .....	4.45	1.68
Total Phenols .....	3.36	1.17
TTO .....	7.97	2.6
Oil and grease (for alternate monitoring) .....	117	39.1

(h) *Mold Cooling Operations.*

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### PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
kg/1,000 kkg (pounds per million pounds) of metal poured		
Copper (T) .....	0.297	0.162
Lead (T) .....	0.305	0.151
Zinc (T) .....	0.44	0.166
TTO .....	0.935	0.304
Oil and grease (for alternate monitoring) .....	11.6	3.86

**§ 464.17 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology. [Reserved]**

### Subpart B—Copper Casting Subcategory

#### § 464.20 Applicability; description of the copper casting subcategory.

The provisions of this subpart are applicable to discharges to waters of the United States and to the introduction of pollutants into publicly owned treatment works resulting from copper casting operations as defined in § 464.02(b).

#### § 464.21 Specialized definitions.

For the purpose of this subpart:

(a) *Total Toxic Organics (TTO)*. TTO is a regulated parameter under PSES (§ 464.25) and PSNS (§ 464.26) for the copper subcategory and is comprised of a discrete list of toxic organic pollutants for each process segment where it is regulated, as follows:

(1) Casting Quench (§ 464.25(a) and § 464.26(a)):

23. chloroform (trichloromethane)  
64. pentachlorophenol  
66. bis(2-ethylhexyl)phthalate  
71. dimethyl phthalate

(2) Dust Collection Scrubbers (§ 464.25(c) and 464.26(c)):

1. acenaphthene  
22. para-chloro meta-cresol  
23. chloroform (trichloromethane)  
34. 2,4-dimethylphenol  
55. naphthalene  
58. 4-nitrophenol  
64. pentachlorophenol  
65. phenol  
66. bis(2-ethylhexyl)phthalate  
67. butyl benzyl phthalate  
68. di-n-butyl phthalate  
70. diethyl phthalate  
71. dimethyl phthalate  
72. benzo(a)anthracene (1,2-benzanthracene)

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71. dimethyl phthalate  
72. benzo(a)anthracene (1,2-benzanthracene)

74. 3,4-benzofluoranthene

75. benzo(k) fluoranthene

76. chrysene

77. acenaphthylene

78. anthracene

81. phenanthrene

84. pyrene

(3) Investment Casting (§ 464.25(e) and § 464.26(e)):

1. acenaphthene

22. para-chloro meta-cresol

23. chloroform (trichloromethane)

34. 2,4-dimethylphenol

55. naphthalene

58. 4-nitrophenol

64. pentachlorophenol

65. phenol

66. bis(2-ethylhexyl)phthalate

67. butyl benzyl phthalate

68. di-n-butyl phthalate

70. diethyl phthalate

71. dimethyl phthalate

72. benzo(a)anthracene (1,2-benzanthracene)

74. 3,4-benzofluoranthene

75. benzo(k) fluoranthene

76. chrysene

77. acenaphthylene

78. anthracene

81. Phenanthrene

84. pyrene

(4) Melting Furnace Scrubber (§ 464.25(f) and § 464.26(f)):

1. acenaphthene

22. para-chloro meta-cresol

23. chloroform (trichloromethane)

34. 2,4-dimethylphenol

55. naphthalene

58. 4-nitrophenol

64. pentachlorophenol

65. phenol

66. bis(2-ethylhexyl)phthalate

67. butyl benzyl phthalate

68. di-n-butyl phthalate

70. diethyl phthalate

71. dimethyl phthalate

72. benzo(a)anthracene (1,2-benzanthracene)

74. 3,4-benzofluoranthene

75. benzo(k) fluoranthene

76. chrysene

77. acenaphthylene

78. anthracene

81. phenanthrene

84. pyrene

(5) Mold Cooling (§ 464.25(g) and § 464.26(g)):

23. chloroform (trichloromethane)

64. pentachlorophenol

66. bis(2-ethylhexyl)phthalate

71. dimethyl phthalate