

§ 421.314

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced from cobalt sludge	
Copper .....	45.80	21.83
Nickel .....	19.68	13.24
Ammonia (as N) .....	4,770.00	2,097.00
Cobalt .....	98.756	43.295
Tungsten .....	124.50	55.46

(h) Crystallization decant.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper .....	53,310	25,410
Nickel .....	22,910	15,410
Ammonia (as N) .....	5,552,000	2,441,000
Cobalt .....	114,954	50,397
Tungsten .....	144,900	64,560

(i) Acid wash decant.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper .....	24,400	11,630
Nickel .....	10,490	7,053
Ammonia (as N) .....	2,541,000	1,117,000
Cobalt .....	52,611	23,065
Tungsten .....	66,340	29,550

(j) Cobalt hydroxide filtrate.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper .....	72,510	34,560
Nickel .....	31,160	20,960
Ammonia (as N) .....	7,551,000	3,320,000
Cobalt .....	156,346	68,543
Tungsten .....	197,100	87,800

(k) Cobalt hydroxide filter cake wash.

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper .....	139,600	66,510
Nickel .....	59,970	40,340
Ammonia (as N) .....	14,530,000	6,389,000
Cobalt .....	300,094	131,932
Tungsten .....	379,400	169,000

[50 FR 38386, Sept. 20, 1985, as amended at 55 FR 31714, 31715, Aug. 3, 1990]

§ 421.314 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Tungsten detergent wash and rinse.

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten scrap washed	
Copper .....	0.250	0.119
Nickel .....	0.107	0.072
Ammonia (as N) .....	25,990	11,430
Cobalt .....	0.538	0.236
Tungsten .....	0.679	0.302
Oil and grease .....	1,950	1,950
Total suspended solids .....	2,925	2,340
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(b) Tungsten leaching acid.

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten produced	
Copper .....	3,291	1,569
Nickel .....	1,414	0,951
Ammonia (as N) .....	342,700	150,700
Cobalt .....	7,096	3,111
Tungsten .....	8,947	3,985
Oil and grease .....	25,710	25,710
Total suspended solids .....	38,570	30,850
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

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(c) Tungsten post-leaching wash and rinse.

**NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten produced	
Copper .....	6.583	3.137
Nickel .....	2.829	1.903
Ammonia (as N) .....	685.600	301.400
Tungsten .....	17.900	7.972
Cobalt .....	14.194	6.223
Oil and grease .....	51.430	51.430
Total suspended solids .....	77.150	61.720
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(d) Synthetic scheelite filtrate.

**NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of synthetic scheelite produced	
Copper .....	21.330	10.170
Nickel .....	9.164	6.165
Ammonia (as N) .....	2,221.000	976.300
Cobalt .....	45.984	20.160
Tungsten .....	57.980	25.820
Oil and grease .....	166.600	166.600
Total suspended solids .....	249.900	199.900
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(e) Tungsten carbide leaching wet air pollution control.

**NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten carbide scrap leached	
Copper .....	2.241	1.068
Nickel .....	0.963	0.648
Ammonia (as N) .....	233.400	102.600
Cobalt .....	4.833	2.119
Tungsten .....	6.093	2.714
Oil and grease .....	17.510	17.510
Total suspended solids .....	26.270	21.010
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(f) Tungsten carbide wash water.

**NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten carbide produced	
Copper .....	10.670	5.083
Nickel .....	4.583	3.083
Ammonia (as N) .....	1,111.000	488.300
Cobalt .....	22.999	10.083
Tungsten .....	29.000	12.920
Oil and grease .....	83.330	83.330
Total suspended solids .....	125.000	100.000
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(g) Cobalt sludge leaching wet air pollution control.

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	mg/kg (pounds per million pounds) of cobalt produced from cobalt sludge	
Copper .....	45.80	21.83
Nickel .....	19.68	13.24
Ammonia (as N) .....	4,770.00	2,097.00
Cobalt .....	98.756	43.295
Tungsten .....	124.50	55.46
Oil and grease .....	357.80	357.80
Total suspended solids .....	536.70	429.40
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(h) Crystallization decant.

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper .....	53.310	25.410
Nickel .....	22.910	15.410
Ammonia (as N) .....	5,552.000	2,441.000
Cobalt .....	114.954	50.397
Tungsten .....	144.900	64.560
Oil and grease .....	416.500	416.500
Total suspended solids .....	624.800	499.800
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(i) Acid wash decant.

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**NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper .....	24.400	11.630
Nickel .....	10.490	7.053
Ammonia (as N) .....	2,541.000	1,117.000
Cobalt .....	52.611	23.065
Tungsten .....	66.340	29.550
Oil and grease .....	190.600	190.600
Total suspended solids .....	285.900	228.700
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(j) Cobalt hydroxide filtrate.

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Copper .....	72.510	34.560
Nickel .....	31.160	20.960
Ammonia (as N) .....	7,551.000	3,320.000
Cobalt .....	156.346	68.543
Tungsten .....	197.100	87.800
Oil and grease .....	566.500	566.500
Total suspended solids .....	849.700	679.800
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

(k) Cobalt hydroxide filter cake wash.

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Copper .....	139.600	66.510
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Ammonia (as N) .....	14,530.000	6,389.000
Cobalt .....	300.094	131.932
Tungsten .....	379.400	169.000
Oil and grease .....	1,090.000	1,090.000
Total suspended solids .....	1,636.000	1,308.000
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> Within the range of 7.5 to 10.0 at all times.

[50 FR 38386, Sept. 20, 1985, as amended at 55 FR 31715, 31716, Aug. 3, 1990]

**§ 421.315 Pretreatment standards for existing sources.**

Except as provided in 40 CFR 403.7, any existing source subject to this sub-

part which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in secondary tungsten and cobalt process wastewater introduced into a POTW shall not exceed the following values:

(a) Tungsten detergent wash and rinse.

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(c) Tungsten post-leaching wash and rinse.

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(d) Synthetic scheelite filtrate.