

§ 471.56

40 CFR Ch. I (7-1-04 Edition)

SUBPART E—PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals product tested	
Copper .....	0.100	0.048
Nickel .....	0.043	0.029
Fluoride .....	4.62	2.05
Molybdenum .....	0.391	0.173

(y) *Degreasing spend solvents—Subpart E—PSNS.* There shall be no discharge of process wastewater pollutants.

[50 FR 34270, Aug. 23, 1985; 51 FR 2887, Jan. 22, 1986]

§ 471.56 **Effluent limitations representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology (BCT).** [Reserved]

**Subpart F—Titanium Forming Subcategory**

§ 471.60 **Applicability; description of the titanium forming subcategory.**

This subpart applies to discharges of pollutants to waters of the United States, and introductions of pollutants into publicly owned treatment works from the process operations of the titanium forming subcategory.

§ 471.61 **Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).**

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations for the process operations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

(a) *Rolling spent neat oils—Subpart F—BPT.* There shall be no discharge of process wastewater pollutants.

(b) *Rolling contact cooling water.*

SUBPART F—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of titanium rolled with contact cooling water	
Cyanide .....	1.4	0.586
Lead .....	2.05	0.976
Zinc .....	7.13	2.98
Ammonia .....	651	286
Fluoride .....	291	129
Oil and grease .....	97.0	58.0
TSS .....	200.0	95.0
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(c) *Drawing spent neat oils—Subpart F—BPT.* There shall be no discharge of process wastewater pollutants.

(d) *Extrusion spent neat oils—Subpart F—BPT.* There shall be no discharge of process wastewater pollutants.

(e) *Extrusion spent emulsions.*

SUBPART F—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of titanium extruded	
Cyanide .....	0.021	0.009
Lead .....	0.030	0.015
Zinc .....	0.105	0.044
Ammonia .....	9.59	4.22
Fluoride .....	4.28	1.9
Oil and grease .....	1.44	0.863
TSS .....	2.95	1.4
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(f) *Extrusion press hydraulic fluid leakage.*

SUBPART F—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of titanium extruded	
Cyanide .....	0.052	0.022
Lead .....	0.075	0.036
Zinc .....	0.260	0.109
Ammonia .....	23.7	10.5
Fluoride .....	10.6	4.70
Oil and grease .....	3.56	2.14
TSS .....	7.30	3.47
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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(g) *Forging spent lubricants—Subpart F—BPT.* There shall be no discharge of process wastewater pollutants.

(h) *Forging contact cooling water.*

**SUBPART F—BPT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of forged titanium cooled with water	
Cyanide .....	0.580	0.240
Lead .....	0.840	0.400
Zinc .....	2.92	1.22
Ammonia .....	267	117
Fluoride .....	119	52.8
Oil and grease .....	40.0	24.0
TSS .....	82.0	39.0
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(i) *Forging equipment cleaning wastewater.*

**SUBPART F—BPT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals forged	
Cyanide .....	0.012	0.005
Lead .....	0.017	0.008
Zinc .....	0.059	0.025
Ammonia .....	5.33	2.35
Fluoride .....	2.38	1.06
Oil and grease .....	0.800	0.480
TSS .....	1.64	0.780
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(j) *Forging press hydraulic fluid leakage.*

**SUBPART F—BPT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals forged	
Cyanide .....	0.293	0.121
Lead .....	0.424	0.202
Zinc .....	1.48	0.616
Ammonia .....	135	59.2
Fluoride .....	60.1	26.7
Oil and grease .....	20.2	12.1
TSS .....	41.4	19.7
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(k) *Tube reducing spent lubricants—Subpart F—BPT.* There shall be no dis-

charge of process wastewater pollutants.

(l) *Heat treatment contact cooling water—Subpart F—BPT.* There shall be no allowance for the discharge of process wastewater pollutants.

(m) *Surface treatment spent baths.*

**SUBPART F—BPT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of titanium surface treated	
Cyanide .....	0.061	0.025
Lead .....	0.088	0.042
Zinc .....	0.304	0.127
Ammonia .....	27.7	12.2
Fluoride .....	12.4	5.49
Oil and grease .....	4.16	2.50
TSS .....	8.53	4.06
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(n) *Surface treatment rinse.*

**SUBPART F—BPT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of titanium surface treated	
Cyanide .....	8.47	3.51
Lead .....	12.3	5.84
Zinc .....	42.7	17.8
Ammonia .....	3,890	1,710
Fluoride .....	1,740	771
Oil and grease .....	584	351
TSS .....	1,200	570
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(o) *Wet air pollution control scrubber blowdown.*

**SUBPART F—BPT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of titanium surface treated or forged	
Cyanide .....	0.621	0.257
Lead .....	0.899	0.428
Zinc .....	3.13	1.31
Ammonia .....	285	126
Fluoride .....	128	56.5
Oil and grease .....	42.8	25.7
TSS .....	87.8	41.8
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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(p) *Alkaline cleaning spent baths.*

SUBPART F—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of titanium alkaline cleaned	
Cyanide .....	0.070	0.029
Lead .....	0.101	0.048
Zinc .....	0.351	0.147
Ammonia .....	32.0	14.1
Fluoride .....	14.3	6.34
Oil and grease .....	4.80	2.88
TSS .....	9.84	4.68
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(q) *Alkaline cleaning rinse.*

SUBPART F—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of titanium alkaline cleaned	
Cyanide .....	0.801	0.331
Lead .....	1.16	0.552
Zinc .....	4.03	1.69
Ammonia .....	370	160
Fluoride .....	164	72.9
Oil and grease .....	55.2	33.1
TSS .....	113	53.8
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(r) *Molten salt rinse.*

SUBPART F—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of titanium treated with molten salt	
Cyanide .....	0.277	0.115
Lead .....	0.401	0.191
Zinc .....	1.40	0.583
Ammonia .....	128	56.0
Fluoride .....	56.8	25.2
Oil and grease .....	19.1	11.5
TSS .....	39.2	18.6
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(s) *Tumbling wastewater.*

SUBPART F—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of titanium tumbled	
Cyanide .....	0.229	0.095
Lead .....	0.332	0.158
Zinc .....	1.16	0.482
Ammonia .....	110	46
Fluoride .....	47.0	20.9
Oil and grease .....	15.8	9.48
TSS .....	32.4	15.4
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(t) *Sawing or grinding spent neat oils—Subpart F—BPT.* There shall be no discharge of process wastewater pollutants.

(u) *Sawing or grinding of spent emulsions.*

SUBPART F—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of titanium sawed or ground with an emulsion	
Cyanide .....	0.053	0.022
Lead .....	0.077	0.037
Zinc .....	0.267	0.112
Ammonia .....	24.4	10.7
Fluoride .....	10.9	4.83
Oil and grease .....	3.66	2.20
TSS .....	7.51	3.57
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(v) *Sawing or grinding contact cooling water.*

SUBPART F—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of titanium sawed or ground with contact cooling water	
Cyanide .....	1.38	0.571
Lead .....	2.00	0.952
Zinc .....	6.95	2.91
Ammonia .....	635	279
Fluoride .....	283	126
Oil and grease .....	95.2	57.1
TSS .....	195	92.8
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(w) *Dye penetrant testing wastewater.*

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**SUBPART F—BPT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of titanium tested with dye penetrant methods	
Cyanide .....	0.325	0.135
Lead .....	0.471	0.224
Zinc .....	1.64	0.683
Ammonia .....	149	65.7
Fluoride .....	66.7	29.6
Oil and grease .....	22.4	13.5
TSS .....	45.9	21.9
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(x) *Miscellaneous wastewater sources.*

**SUBPART F—BPT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of titanium formed	
Cyanide .....	0.010	0.004
Lead .....	0.014	0.007
Zinc .....	0.048	0.020
Ammonia .....	4.32	1.90
Fluoride .....	1.93	0.856
Oil and grease .....	0.648	0.389
TSS .....	1.33	0.632
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(y) *Degreasing spent solvents—Subpart F—BPT.* There shall be no discharge of process wastewater pollutants.

[50 FR 34270, Aug. 23, 1985; 51 FR 2887, Jan. 22, 1986]

**§ 471.62 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT).**

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT):

(a) *Rolling spent neat oils—Subpart F—BAT.* There shall be no discharge of process wastewater pollutants.

(b) *Rolling contact cooling water.*

**SUBPART F—BAT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of titanium rolled with contact cooling water	
Cyanide .....	0.142	0.059
Lead .....	0.205	0.098
Zinc .....	0.713	0.298
Ammonia .....	65.1	28.6
Fluoride .....	29.1	12.90

(c) *Drawing spent neat oils—Subpart F—BAT.* There shall be no discharge of process wastewater pollutants.

(d) *Extrusion spent neat oils—Subpart F—BAT.* There shall be no discharge of process wastewater pollutants.

(e) *Extrusion spent lubricants.*

**SUBPART F—BAT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of titanium extruded	
Cyanide .....	0.021	0.009
Lead .....	0.030	0.015
Zinc .....	0.105	0.044
Ammonia .....	9.59	4.22
Fluoride .....	4.28	1.90

(f) *Extrusion press hydraulic fluid leakage.*

**SUBPART F—BAT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of titanium extruded	
Cyanide .....	0.052	0.022
Lead .....	0.075	0.036
Zinc .....	0.260	0.109
Ammonia .....	23.7	10.5
Fluoride .....	10.6	4.70

(g) *Forging spent lubricants—Subpart F—BAT.* There shall be no discharge of process wastewater pollutants.

(h) *Forging contact cooling water.*