

**Environmental Protection Agency**

**§ 471.62**

**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.*

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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 forged titanium cooled with water	
Cyanide .....	0.029	0.012
Lead .....	0.042	0.020
Zinc .....	0.146	0.061
Ammonia .....	13.3	5.86
Fluoride .....	5.95	2.64

(i) *Forging equipment cleaning wastewater.*

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 forged cyanide	
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

(j) *Forging 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 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

(k) *Tube reducing spent lubricants—Subpart F—BAT.* There shall be no discharge of process wastewater pollutants.

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

(m) *Surface treatment spent baths.*

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 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

(n) *Surface treatment rinse.*

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 surface treated	
Cyanide .....	0.847	0.351
Lead .....	1.23	0.584
Zinc .....	4.27	1.78
Ammonia .....	389	171
Fluoride .....	174	77.1

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

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 surface treated or forged	
Cyanide .....	0.062	0.026
Lead .....	0.090	0.043
Zinc .....	0.313	0.131
Ammonia .....	28.5	12.6
Fluoride .....	12.8	5.68

(p) *Alkaline cleaning spent baths.*

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 alkaline cleaned	
Cyanide .....	0.070	0.029
Lead .....	0.101	0.048
Zinc .....	0.351	0.147
Ammonia .....	32	14.1
Fluoride .....	14.3	6.34

(q) *Alkaline cleaning rinse.*

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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 .....	0.080	0.033
Lead .....	0.116	0.055
Zinc .....	0.403	0.169
Ammonia .....	36.8	16.2
Fluoride .....	16.4	7.29

(r) *Molten salt rinse.*

**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 treated with molten salt	
Cyanide .....	0.277	0.115
Lead .....	0.401	0.191
Zinc .....	1.40	0.583
Ammonia .....	128	56
Fluoride .....	56.8	25.2

(s) *Tumbling wastewater.*

**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 tumbled	
Cyanide .....	0.022	0.010
Lead .....	0.033	0.016
Zinc .....	0.116	0.048
Ammonia .....	11.0	4.60
Fluoride .....	4.70	2.09

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

(u) *Sawing or grinding spent emulsions.*

**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 sawed or ground with emulsions	
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

(v) *Sawing or grinding 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) to titanium sawed or ground with contact cooling water	
Cyanide .....	0.138	0.057
Lead .....	0.200	0.095
Zinc .....	0.695	0.291
Ammonia .....	63.5	27.9
Fluoride .....	28.3	12.6

(w) *Dye penetrant testing wastewater.*

**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 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

(x) *Miscellaneous wastewater sources.*

**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 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

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

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

**§ 471.63 New source performance standards (NSPS).**

Any new source subject to this subpart must achieve the following new source performance standards (NSPS). The discharge of wastewater pollutants from titanium process wastewater