

**Environmental Protection Agency**

**§ 471.55**

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

**SUBPART E—PSES**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals sawed or ground with contact cooling water	
Copper .....	4.62	2.43
Nickel .....	4.67	3.09
Fluoride .....	145.	64.2
Molybdenum .....	16.1	8.31

(u) *Sawing or grinding rinse.*

**SUBPART E—PSES**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of sawed or ground refractory metals rinsed	
Copper .....	0.026	0.014
Nickel .....	0.026	0.017
Fluoride .....	0.804	0.357
Molybdenum .....	0.089	0.046

(v) *Wet air pollution control blowdown.*

**SUBPART E—PSES**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals sawed, surface coated or surface treated	
Copper .....	1.50	0.787
Nickel .....	1.51	1.00
Fluoride .....	46.9	20.8
Molybdenum .....	5.20	2.69

(w) *Miscellaneous wastewater sources.*

**SUBPART E—PSES**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of refractory metals formed	
Copper .....	0.656	0.345
Nickel .....	0.663	0.438
Fluoride .....	20.6	9.11
Molybdenum .....	2.28	1.18

(x) *Dye penetrant testing wastewater.*

**SUBPART E—PSES**

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 .....	0.148	0.078
Nickel .....	0.149	0.099
Fluoride .....	4.62	2.05
Molybdenum .....	0.513	0.266

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

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

**§ 471.55 Pretreatment standards for new sources (PSNS).**

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources (PSNS). The mass of wastewater pollutants in the refractory metals forming process wastewater shall not exceed the values set forth below:

(a) *Rolling spent neat oils and graphite based lubricants—Subpart E—PSNS.* There shall be no discharge of process wastewater pollutants.

(b) *Rolling spent emulsions.*

**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 rolled with emulsions	
Copper .....	0.549	0.262
Nickel .....	0.236	0.159
Fluoride .....	25.5	11.3
Molybdenum .....	2.16	0.957

(c) *Drawing spent lubricants—Subpart E—PSNS.* There shall be no discharge of process wastewater pollutants.

(d) *Extrusion spent lubricants—Subpart E—NSPS.* There shall be no discharge of process wastewater pollutants.

(e) *Extrusion press hydraulic fluid leakage.*

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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 extruded	
Copper .....	1.53	0.726
Nickel .....	0.655	0.441
Fluoride .....	70.8	31.4
Molybdenum .....	5.99	2.66

(f) *Forging spent lubricants—Subpart E—PSNS.* There shall be no discharge of process wastewater pollutants.

(g) *Forging contact cooling water.*

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 forged refractory metals cooled with water	
Copper .....	0.041	0.320
Nickel .....	0.018	0.021
Fluoride .....	1.92	0.853
Molybdenum .....	0.163	0.072

(h) *Equipment cleaning wastewater.*

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 formed	
Copper .....	0.174	0.083
Nickel .....	0.075	0.051
Fluoride .....	8.09	3.59
Molybdenum .....	0.684	0.303

(i) *Metal powder production wastewater.*

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 powder produced	
Copper .....	0.360	0.172
Nickel .....	0.155	0.104
Fluoride .....	16.7	7.42
Molybdenum .....	1.42	0.627

(j) *Metal powder production floor wash wastewater—Subpart E—PSNS.* There

shall be no discharge of process wastewater pollutants.

(k) *Metal powder pressing spent lubricants—Subpart E—PSNS.* There shall be no discharge of process wastewater pollutants.

(1) *Surface treatment spent baths.*

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 surface treated	
Copper .....	0.498	0.237
Nickel .....	0.214	0.144
Fluoride .....	23.2	10.3
Molybdenum .....	1.96	0.868

(m) *Surface treatment rinse.*

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 surface treated	
Copper .....	15.5	7.38
Nickel .....	6.66	4.48
Fluoride .....	720	320
Molybdenum .....	60.9	27.0

(n) *Alkaline cleaning spent baths.*

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 alkaline cleaned	
Copper .....	0.428	0.204
Nickel .....	0.184	0.124
Fluoride .....	19.9	8.82
Molybdenum .....	1.68	0.745

(o) *Alkaline cleaning rinse.*

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 alkaline cleaned	
Copper .....	10.5	4.98
Nickel .....	4.49	3.02
Fluoride .....	48.6	216
Molybdenum .....	41.1	18.2

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(p) *Molten salt rinse.*

**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 treated with molten salt	
Copper .....	0.810	0.386
Nickel .....	0.348	0.234
Fluoride .....	37.7	16.7
Molybdenum .....	3.19	1.41

(q) *Tumbling or burnishing wastewater.*

**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 tumbled or burnished	
Copper .....	1.60	0.763
Nickel .....	0.688	0.463
Fluoride .....	74.4	33.0
Molybdenum .....	6.29	2.79

(r) *Sawing or grinding spent neat oils—Subpart E—PSNS.* There shall be no discharge or process wastewater pollutants.

(s) *Sawing or grinding spent emulsions.*

**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 sawed or ground with emulsions	
Copper .....	0.380	0.181
Nickel .....	0.164	0.110
Fluoride .....	17.7	7.84
Molybdenum .....	1.50	0.663

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

**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 sawed or ground with contact cooling water	
Copper .....	3.11	1.48
Nickel .....	1.34	0.899
Fluoride .....	145	64.2
Molybdenum .....	12.2	5.42

(u) *Sawing or grinding rinse.*

**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 sawed or ground refractory metals rinsed	
Copper .....	0.018	0.009
Nickel .....	0.008	0.005
Fluoride .....	0.803	0.357
Molybdenum .....	0.068	0.030

(v) *Wet air pollution control blowdown.*

**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 sawed, ground, surface coated or surface treated	
Copper .....	1.01	0.480
Nickel .....	0.433	0.291
Fluoride .....	46.8	20.8
Molybdenum .....	3.96	1.76

(w) *Miscellaneous wastewater source.*

**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 formed	
Copper .....	0.442	0.211
Nickel .....	0.192	0.128
Fluoride .....	20.6	9.11
Molybdenum .....	1.74	0.770

(x) *Dye penetrant testing wastewater.*

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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.