

**Environmental Protection Agency**

**§ 471.101**

**SUBPART I—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 zirconium-hafnium rinsed	
Chromium .....	0.079	0.033
Cyanide .....	0.052	0.022
Nickel .....	0.346	0.229
Ammonia .....	24.0	10.6
Fluoride .....	10.7	4.75

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

(t) *Inspection and testing wastewater.*

**SUBPART I—PSNS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of zirconium-hafnium tested	
Chromium .....	0.007	0.003
Cyanide .....	0.005	0.002
Nickel .....	0.030	0.020
Ammonia .....	2.06	0.903
Fluoride .....	0.917	0.407

[50 FR 34270, Aug. 23, 1985; 51 FR 2889, Jan. 22, 1986, as amended at 54 FR 11352, Mar. 17, 1989]

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

**Subpart J—Metals Powders Subcategory**

**§ 471.100 Applicability; description of the powder metals 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 metal powders subcategory.

**§ 471.101 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) *Metal powder production atomization wastewater.*

**SUBPART J—BPT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of powder wet atomized	
Copper .....	9.58	5.04
Cyanide .....	1.46	0.605
Lead .....	2.12	1.01
Oil and grease .....	101	60.5
TSS .....	207	98.3
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(b) *Sizing spent emulsion.*

**SUBPART J—BPT**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of powder sized	
Copper .....	0.028	0.015
Cyanide .....	0.004	0.002
Lead .....	0.006	0.003
Oil and grease .....	0.292	0.175
TSS .....	0.599	0.285
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(c) *Oil-resin impregnation wastewater—Subpart J—BPT.* There shall be no discharge of process wastewater pollutants.

(d) *Steam treatment wet air pollution control scrubber blowdown.*

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SUBPART J—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of power metallurgy parts steam treated	
Copper .....	1.51	0.792
Cyanide .....	0.230	0.095
Lead .....	0.333	0.159
Oil and grease .....	15.9	9.51
TSS .....	32.5	15.5
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(e) *Tumbling, burnishing and cleaning wastewater.*

SUBPART J—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of powder metallurgy parts tumbled, burnished, or cleaned	
Copper .....	8.36	4.40
Cyanide .....	1.28	0.528
Lead .....	1.85	0.880
Oil and grease .....	88.0	52.800
TSS .....	181	85.8
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

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

(g) *Sawing or grinding spent emulsion.*

SUBPART J—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of powder metallurgy parts sawed or ground with emulsion	
Copper .....	0.035	0.018
Cyanide .....	0.005	0.002
Lead .....	0.008	0.004
Oil and grease .....	0.362	0.217
TSS .....	0.742	0.353
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

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

SUBPART J—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of powder metallurgy parts sawed or ground with contact cooling	
Copper .....	3.08	1.62
Cyanide .....	0.470	0.195
Lead .....	0.681	0.324
Oil and grease .....	32.4	19.5
TSS .....	66.4	31.6
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(i) *Hot pressing contact cooling water.*

SUBPART J—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of powder cooled after pressing	
Copper .....	16.7	8.80
Cyanide .....	2.55	1.06
Lead .....	3.70	1.76
Oil and grease .....	176	106
TSS .....	361	172
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(j) *Mixing wet air pollution control scrubber blowdown.*

SUBPART J—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of powder mixed	
Copper .....	15.0	7.90
Cyanide .....	2.29	0.948
Lead .....	3.32	1.58
Oil and grease .....	158	94.8
TSS .....	324	154
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

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

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

[50 FR 34270, Aug. 23, 1985; 51 FR 2889, Jan. 22, 1986]