

Environmental Protection Agency

§ 471.102

§ 471.102 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) *Metal powder production atomization wastewater.*

SUBPART J—BAT

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

(b) *Sizing spent emulsions.*

SUBPART J—BAT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) or powder sized	
Copper	0.028	0.015
Cyanide	0.004	0.002
Lead	0.006	0.003

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

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

SUBPART J—BAT

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 steam treated	
Copper	1.51	0.792
Cyanide	0.230	0.095
Lead	0.333	0.159

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

SUBPART J—BAT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) or powder metallurgy parts tumbled, burnished, or cleaned	
Copper	8.36	4.40
Cyanide	1.28	0.528
Lead	1.850	0.880

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

(g) *Sawing or grinding spent emulsions.*

SUBPART J—BAT

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 emulsions	
Copper	0.0035	0.018
Cyanide	0.005	0.002
Lead	0.008	0.004

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

SUBPART J—BAT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of powder sawed or ground with contact cooling	
Copper	3.08	1.62
Cyanide	0.470	0.195
Lead	0.681	0.324

(i) *Hot pressing contact cooling water.*

SUBPART J—BAT

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	1.760

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

SUBPART J—BAT

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

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

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

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

Any new source subject to this subpart must achieve the following new source performance standards (NSPS). The mass of pollutants in the metal powder process wastewater shall not exceed the following values:

(a) *Metal powder production atomization wastewater.*

SUBPART J—NSPS

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	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) *Sizing spent emulsions.*

SUBPART J—NSPS

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	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

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

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

SUBPART J—NSPS

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 steam treated	
Copper	0.151	0.079
Cyanide	0.023	0.010
Lead	0.033	0.016
Oil and grease	1.59	0.951
TSS	3.25	1.55
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

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

SUBPART J—NSPS

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	0.836	0.440
Cyanide	0.128	0.053
Lead	0.185	0.088
Oil and grease	8.80	5.28
TSS	18.1	8.58
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

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

(g) *Sawing or grinding spent emulsions.*

SUBPART J—NSPS

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 emulsions	
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	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.