

Environmental Protection Agency

§ 421.304

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium cast	
Chromium (total)	27.000	10.950
Lead	20.430	9.486
Nickel	40.140	27.000
Titanium	38.68	16.78

§ 421.304 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Chlorination off-gas wet air pollution control.

NSPS LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ produced	
Chromium (total)	0.346	0.140
Lead	0.262	0.122
Nickel	0.515	0.346
Titanium	0.496	0.215
Oil and grease	9.360	9.360
Total suspended solids	14.040	11.230
pH	(¹)	(¹)

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

(b) Chlorination area-vent wet air pollution control.

NSPS LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ produced	
Chromium (total)	0.385	0.156
Lead	0.291	0.135
Nickel	0.572	0.385
Titanium	0.551	0.239
Oil and grease	10.400	10.400
Total suspended solids	15.600	12.480
pH	(¹)	(¹)

¹ Within the range of 7.0 to 10.0 at all times.

(c) TiCl₄ handling wet air pollution control.

NSPS LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ handled	
Chromium (total)	0.069	0.028
Lead	0.052	0.024
Nickel	0.103	0.069
Titanium	0.099	0.043
Oil and grease	1.870	1.870
Total suspended solids	2.805	2.244
pH	(¹)	(¹)

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

(d) Reduction area wet air pollution control.

NSPS LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium produced	
Chromium (total)	1.528	0.620
Lead	1.156	0.537
Nickel	2.272	1.528
Titanium	2.189	0.950
Oil and grease	41.300	41.300
Total suspended solids	61.950	49.560
pH	(¹)	(¹)

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

(e) Melt cell wet air pollution control.

NSPS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium produced	
Chromium (total)	0.787	0.319
Lead	0.595	0.276
Nickel	1.169	0.787
Titanium	1.127	0.489
Oil and grease	21.260	21.260
Total suspended solids	31.890	25.510
pH	(¹)	(¹)

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

(f) Chlorine liquefaction wet air pollution control.

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NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of titanium produced	
Chromium (total)	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Titanium	0.000	0.000
Oil and grease	0.000	0.000
Total suspended solids	0.000	0.000
pH	(¹)	(¹)

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

(g) Sodium reduction container re-conditioning wash.

NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of titanium produced	
Chromium (total)	0.474	0.192
Lead	0.359	0.167
Nickel	0.705	0.474
Titanium	0.679	0.295
Oil and grease	12.820	12.820
Total suspended solids	19.230	15.380
pH	(¹)	(¹)

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

(h) Chip crushing wet air pollution control.

NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of titanium produced	
Chromium (total)	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Titanium	0.000	0.000
Oil and grease	0.000	0.000
Total suspended solids	0.000	0.000
pH	(¹)	(¹)

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

(i) Acid leachate and rinse water.

NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of titanium produced	
Chromium (total)	4.381	1.776
Lead	3.315	1.539
Nickel	6.512	4.381
Titanium	6.275	2.723
Oil and grease	118.400	118.400
Total suspended solids	177.600	142.100
pH	(¹)	(¹)

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

(j) Sponge crushing and screening wet air pollution control.

NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium produced	
Chromium (total)	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Titanium	0.000	0.000
Oil and grease	0.000	0.000
Total suspended solids	0.000	0.000
pH	(¹)	(¹)

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

(k) Acid pickle and wash water.

NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium pickled	
Chromium (total)	0.023	0.009
Lead	0.017	0.008
Nickel	0.034	0.023
Titanium	0.032	0.014
Oil and grease	0.610	0.610
Total suspended solids	0.915	0.732
pH	(¹)	(¹)

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

(l) Scrap milling wet air pollution control.

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**NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of scrap milled	
Chromium (total)	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Titanium	0.000	0.000
Oil and grease	0.000	0.000
Total suspended solids	0.000	0.000
pH	(¹)	(¹)

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

(m) Scrap detergent wash water.

**NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of scrap washed	
Chromium (total)	6.684	2.710
Lead	5.058	2.348
Nickel	9.935	6.684
Titanium	9.574	4.155
Oil and grease	180.600	180.600
Total suspended solids	271.000	216.000
pH	(¹)	(¹)

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

(n) Casting crucible wash water.

**NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium cast	
Chromium (total)	0.176	0.072
Lead	0.134	0.062
Nickel	0.262	0.176
Titanium	0.253	0.110
Oil and grease	4.770	4.770
Total suspended solids	7.155	5.724
pH	(¹)	(¹)

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

(o) Casting contact cooling water.

**NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium cast	
Chromium (total)	27.000	10.950
Lead	20.430	9.486
Nickel	40.140	27.000
Titanium	38.680	16.780
Oil and grease	729.700	729.700
Total suspended solids	1,095.000	875.700
pH	(¹)	(¹)

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

§ 421.305 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing 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 existing sources. The mass of wastewater pollutants in primary and secondary titanium process wastewater introduced into a POTW must not exceed the following values:

(a) Chlorination off-gas wet air pollution control.

**PSES FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ produced	
Chromium (total)	0.346	0.140
Lead	0.262	0.122
Nickel	0.515	0.346
Titanium	0.496	0.215

(b) Chlorination Area-vent wet air pollution control.