

**Environmental Protection Agency**

**§ 421.305**

**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 .....	( <sup>1</sup> )	( <sup>1</sup> )

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

(l) Scrap milling 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 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 .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> 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 .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> 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 .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> 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 .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup> 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 <sub>4</sub> produced	
Chromium (total) .....	0.346	0.140
Lead .....	0.262	0.122
Nickel .....	0.515	0.346

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40 CFR Ch. I (7-1-09 Edition)

PSES FOR THE PRIMARY AND SECONDARY  
TITANIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Titanium .....	0.496	0.215

(b) Chlorination Area-vent 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 <sub>4</sub> produced	
Chromium (total) .....	0.385	0.156
Lead .....	0.291	0.135
Nickel .....	0.572	0.385
Titanium .....	0.551	0.239

(c) TiCl<sub>4</sub> handling 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 <sub>4</sub> handled	
Chromium (total) .....	0.069	0.028
Lead .....	0.052	0.024
Nickel .....	0.103	0.069
Titanium .....	0.099	0.043

(d) Reduction area 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 titanium produced	
Chromium (total) .....	1.528	0.620
Lead .....	1.156	0.537
Nickel .....	2.272	1.528
Titanium .....	2.189	0.950

(e) Melt cell 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 titanium produced	
Chromium (total) .....	0.787	0.319
Lead .....	0.595	0.276
Nickel .....	1.169	0.787
Titanium .....	1.127	0.489

(f) Chlorine liquefaction 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 titanium produced	
Chromium (total) .....	11.010	4.463
Lead .....	8.332	3.868
Nickel .....	16.370	11.010
Titanium .....	15.770	6.844

(g) Sodium reduction container re-conditioning wash water.

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 titanium produced	
Chromium (total) .....	0.474	0.192
Lead .....	0.359	0.167
Nickel .....	0.705	0.474
Titanium .....	0.679	0.295

(h) Chip crushing 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 titanium produced	
Chromium (total) .....	0.848	0.344
Lead .....	0.642	0.298
Nickel .....	1.261	0.848
Titanium .....	1.215	0.527

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(i) Acid leachate and rinse water.

**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 titanium produced	
Chromium (total) .....	4.381	1.776
Lead .....	3.315	1.539
Nickel .....	6.512	4.381
Titanium .....	6.275	2.723

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

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium produced	
Chromium (total) .....	0.239	0.097
Lead .....	0.181	0.084
Nickel .....	0.356	0.239
Titanium .....	0.343	0.149

(k) Acid pickle and wash water.

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	mg/kg (pounds per million pounds) of scrap milled	
Chromium (total) .....	0.084	0.034
Lead .....	0.064	0.030
Nickel .....	0.125	0.084
Titanium .....	0.120	0.052

(m) Scrap detergent wash water.

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