

Air and water quality data from all of Kobe Steel's business sites as well as its major Group companies are reported below.
 For exhaust gases, NOx, dust, and dioxins from representative facilities are included, along with regulation values.
 For wastewater, COD (or biochemical oxygen demand (BOD) in some cases), suspended solids (SS) and oil are included, along with regulation values.

Air Quality Data
 Regulation values are based on the Air Pollution Control Act, prefectural ordinances and conventions.

Water Quality Data
 Regulation values are based on the Water Pollution Prevention Act, the Sewerage Act, prefectural ordinances and conventions.

[Steel & Aluminum]

Kakogawa				
Air				
Substance	Facility	Regulation Value	Actual Measurement Result (Max.)	
NOx(ppm)	Boiler	250	27.6	
	Boiler	60	14	
	Heating Furnace	100	41.7	
Dust(mg/Nm ³)	Boiler	100	5.5	
	Boiler	50	2.5	
	Heating Furnace	100	1.6	
The latest environmental data from Kakogawa Works can be viewed from our website (updated monthly) (in Japanese only) (http://www.kobelco.co.jp/about_kobelco/csr/information)				

Water			
Substance	Regulation Value	Measurement Result (Max.)	
COD(mg/L)	5	3.1	
SS(mg/L)	20	6	
Oil(mg/L)	1	<1	

Kobe Wire Rod & Bar Plant				
Air				
Substance	Facility	Regulation Value	Actual Measurement Result (Max.)	
NOx(ppm)	Heating Furnace	130	80	
	Heating Furnace	100	50	
	Heating Furnace	170	89	
Dust(mg/Nm ³)	Heating Furnace	100	10	
	Heating Furnace	100	< 1	
	Heating Furnace	250	5	
The latest environmental data from Kobe Wire Rod & Bar Plant can be viewed on our corporate website (updated monthly) (in Japanese only) (http://www.kobelco.co.jp/about_kobelco/csr/information)				

Water			
Substance	Regulation Value	Measurement Result (Max.)	
COD(mg/L)	15	3.6	
SS(mg/L)	30	1	
Oil(mg/L)	1	< 1	

Moka Works				
Air				
Substance	Facility	Regulation Value	Actual Measurement Result (Max.)	
NOx(ppm)	Melting Furnace	180	72	
	Boiler	250	25	
	Waste Incinerator	300	<41	
Dust(mg/Nm ³)	Melting Furnace	300	<5	
	Boiler	150	13	
	Waste Incinerator	250	<3	

Water			
Substance	Regulation Value	Measurement Result (Max.)	
BOD(mg/L)	25	18.1	
SS(mg/L)	50	10.8	
Oil(mg/L)	5	<1.0	

Shinko Wire Company, Ltd. (Amagasaki Works)				
Air				
Substance	Facility	Regulation Value	Actual Measurement Result (Max.)	
NOx(ppm)	Boiler	150	31	
	Heating Furnace	130	18	
	Heating Furnace	180	16	
Dust(mg/Nm ³)	Boiler	50	<2	
	Heating Furnace	100	<3	
	Heating Furnace	100	11	

Water			
Substance	Regulation Value	Measurement Result (Max.)	
BOD(mg/L)	20	4	
SS(mg/L)	30	9	
Oil(mg/L)	2	<1	

Shinko Wire Company, Ltd. (Onoe Works)

Air				
Substance	Facility	Regulation Value	Actual Measurement Result (Max.)	
NOx(ppm)	Heating Furnace	170	15	
	Boiler	150	40	
Dust(mg/Nm ³)	Heating Furnace	250	50	
	Boiler	100	1	

Water			
Substance	Regulation Value	Measurement Result (Max.)	
BOD(mg/L)	15	5.2	
SS(mg/L)	25	9	
Oil(mg/L)	2	<0.5	

Shinko Wire Company, Ltd. (Nishikinohama Works)

Air				
Substance	Facility	Regulation Value	Actual Measurement Result (Max.)	
NOx(ppm)	N/A	-	-	
Dust(mg/Nm ³)	N/A	-	-	

Water			
Substance	Regulation Value	Measurement Result (Max.)	
BOD(mg/L)	300 mg/L or less (5 days BOD)	2	
SS(mg/L)	300	2	
Oil(mg/L)	5	1	

Shinko Bolt, Ltd.

Air				
Substance	Facility	Regulation Value	Actual Measurement Result (Max.)	
NOx(ppm)	N/A	-	-	
Dust(mg/Nm ³)	N/A	-	-	

Water			
Substance	Regulation Value	Measurement Result (Max.)	
BOD(mg/L)	25	7	
SS(mg/L)	70	7	
Oil(mg/L)	3	<1	

Nippon Koshuha Steel Co., Ltd.

Air				
Substance	Facility	Regulation Value	Actual Measurement Result (Max.)	
NOx(ppm)	Boiler	180	81	
	Electric Arc Furnace	-	-	
	Heating Furnace	170	160	
Dust(mg/Nm ³)	Boiler	200	86	
	Electric Arc Furnace	100	1.3	
	Heating Furnace	200	17	

Water			
Substance	Regulation Value	Measurement Result (Max.)	
COD(mg/L)	20	7	
SS(mg/L)	50	22	
Oil(mg/L)	3	0.5	

Shinko Aluminum Wire Co., Ltd.

Air				
Substance	Facility	Regulation Value	Actual Measurement Result (Max.)	
NOx(ppm)	Heating Furnace	180	110	
Dust(mg/Nm ³)	Heating Furnace	100	4	

Water			
Substance	Regulation Value	Measurement Result (Max.)	
COD(mg/L)	25	3	
SS(mg/L)	90	1	
Oil(mg/L)	5	0.5	

[Advanced Materials]

Chofu Works

Air				
Substance	Facility	Regulation Value	Actual Measurement Result (Max.)	
NOx(ppm)	Boiler	150	25	
	Melting Furnace	200	57	
	Melting Furnace	180	38	
Dust(mg/Nm ³)	Boiler	100	<5	
	Melting Furnace	300	11	
	Melting Furnace	200	12	

Water			
Substance	Regulation Value	Measurement Result (Max.)	
COD(mg/L)	30	3.3	
SS(mg/L)	50	2	
Oil(mg/L)	2.5	<1	

Daian Works

Air				
Substance	Facility	Regulation Value	Actual Measurement Result (Max.)	
NOx(ppm)	Melting Furnace	120	62	
	Boiler	110	35	

Water			
Substance	Regulation Value	Measurement Result (Max.)	
COD(mg/L)	10	5	
SS(mg/L)	10	2	

	Heating Furnace	120	25		
Dust(mg/Nm3)	Melting Furnace	100	3		
	Boiler	100	<2		
	Heating Furnace	100	24		

Oil(mg/L)	2 (mineral oil 1)	<0.5	3/6
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Shinko Leadmikk Co., Ltd.

Air			
Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	N/A	-	-
Dust(mg/Nm3)	N/A	-	-

Water			
Substance	Regulation Value	Measurement Result (Max.)	
BOD(mg/L)	1500	24	
SS(mg/L)	1500	2.3	
Oil(mg/L)	Mineral oil 5 (Animal and Vegetable oil 150)	Mineral oil <1 (Animal and Vegetable oil <1)	

[Welding]

Fujisawa Plant

Air

Water

Substance	Facility	Regulation Value	Actual Measurement Result (Max.)
NOx(ppm)	N/A	-	-
Dust(mg/Nm ³)	N/A	-	-

Substance	Regulation Value	Measurement Result	確認内容	回答欄
BOD(mg/L)	60	7		
SS(mg/L)	90	14		
Oil(mg/L)	10	<1		

Ibaraki Plant

Air			
Substance	Facility	Regulation Value	Actual Measurement Result (Max.)
NOx(ppm)	Drying Furnace	230	26
	Drying Furnace	230	29
	Boiler	150	25
Dust(mg/Nm ³)	Drying Furnace	200	2
	Drying Furnace	200	3
	Boiler	100	1

Water			
Substance	Regulation Value	Measurement Result (Max.)	
BOD(mg/L)	300	109	
SS(mg/L)	300	34	
Oil(mg/L)	5	1.7	

Saijo Plant

Air			
Substance	Facility	Regulation Value	Actual Measurement Result (Max.)
NOx(ppm)	Drying Furnace	250	44
	Drying Furnace	230	27
Dust(mg/Nm ³)	Drying Furnace	350	6
	Drying Furnace	200	2

Water			
Substance	Regulation Value	Measurement Result (Max.)	
COD(mg/L)	-	-	
SS(mg/L)	-	-	
Oil(mg/L)	5	0.9	

Fukuchiyama Plant

Air			
Substance	Facility	Regulation Value	Actual Measurement Result (Max.)
NOx(ppm)	Heating Furnace	160	100
	Heating Furnace	160	52
	Boiler	135	24
Dust(mg/Nm ³)	Heating Furnace	20	10
	Heating Furnace	20	11
	Boiler	10	2

Water			
Substance	Regulation Value	Measurement Result (Max.)	
COD(mg/L)	300	3.6	
SS(mg/L)	300	2.8	
Oil(mg/L)	3	<0.5	

Hanshin Yosetsu Kizai Co., Ltd.

Air			
Substance	Facility	Regulation Value	Actual Measurement Result (Max.)
NOx(ppm)	Melting Furnace	180	62
	Drying Furnace	150	28
	Baking Furnace	175	32
Dust(mg/Nm ³)	Melting Furnace	100	<60
	Drying Furnace	100	<20
	Baking Furnace	100	<20

Water			
Substance	Regulation Value	Measurement Result (Max.)	
BOD(mg/L)	30	7.6	
SS(mg/L)	30	13	
Oil(mg/L)	-	-	

[Machinery]

Kobelco Compressors Corporation (Harima Plant)

Air			
Substance	Facility	Regulation Value	Actual Measurement Result (Max.)
NOx(ppm)	N/A	-	-
Dust(mg/Nm ³)	N/A	-	-

Water			
Substance	Regulation Value	Measurement Result (Max.)	
COD(mg/L)	50	9.4	
SS(mg/L)	90	9	
Oil(mg/L)	5	0.5	

Shinko Engineering Co., Ltd.

Air			
Substance	Facility	Regulation Value	Actual Measurement Result (Max.)
NOx(ppm)	N/A	-	-
Dust(mg/Nm ³)	Melting Furnace	200	<2
	Melting Furnace	200	<2

Water			
Substance	Regulation Value	Measurement Result (Max.)	
BOD(mg/L)	40	1.70	
SS(mg/L)	60	1	
Oil(mg/L)	5	1	
Company included in water quality data: Kobelco Construction Machinery Co., Ltd. (Ogaki Factory)			

[Engineering]

Kobelco Eco-Solutions Co., Ltd. (Harima Plant)

Air			
Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Firing Furnace	180	121
	Firing Furnace	180	89
	Firing Furnace	180	55
Dust(mg/Nm ³)	Firing Furnace	250	1
	Firing Furnace	250	15
	Firing Furnace	250	3

Water			
Substance	Regulation Value	Measurement Result (Max.)	
BOD(mg/L)	15	12	
SS(mg/L)	28	3	
Oil(mg/L)	5	<2	

[Electric Power]

Kobelco Power Kobe Inc.

Air			
Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Boiler	19 (*1)	16.4
		20 (*2)	
	Boiler	19 (*1)	15.0
		20 (*2)	
Dust(mg/Nm ³)	Boiler	8	1
	Boiler	8	1

*1: During Usual operation. *2: Otherwise usual operation
The latest environmental data from Kobelco Power Kobe Inc. can be viewed on our corporate website (updated monthly) (in Japanese only).
(http://www.kobelco.co.jp/about_kobelco/csr/information)

Water			
Substance	Regulation Value	Measurement Result (Max.)	
COD(mg/L)	15	2.4	
SS(mg/L)	30	6	
Oil(mg/L)	1	<1	

Kobelco Power Kobe No. 2 Inc.

Air			
Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Boiler	15 (*1)	10.9
		20 (*2)	
	Boiler	15 (*1)	9.6
		20 (*2)	
Dust(mg/Nm ³)	Boiler	5	1
	Boiler	5	<1

*1: During Usual operation. *2: Otherwise usual operation
The latest environmental data from Kobelco Power Kobe No.2 Inc. can be viewed on our corporate website (updated monthly) (in Japanese only).
(http://www.kobelco.co.jp/about_kobelco/csr/information)

Water				確認内容	回答欄
Substance	Regulation Value	Measurement Result			
COD(mg/L)	15	2.7		の測定値について、環境データ調査票では2.7と回答いた だいておりますが、 弊所で確認しているバッチ データ上では、最大値は5月 度の「4.1」と認識してお ります。 左記値で間違いがないかご 確認をお願いします。誤りがあ	「2.7」が正ではないで しょうか。 (4.1は総合排水処理 Facilityの測定結果と思 われますが、ここに記載す るのは放水口の数値で はないでしょうか?)
SS(mg/L)	30	7			
Oil(mg/L)	1	<1			

[Kobelco Power Moka Inc.]

Air			
Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Gas turbine	70	3.9
	Gas turbine	70	4.7
	Boiler	130	55
Dust(mg/Nm ³)	Gas turbine	50	<5
	Gas turbine	50	<5
	Boiler	100	<1

The latest environmental data from Kobelco Power Moka Inc. can be viewed on our corporate website (updated monthly) (in Japanese only).
(https://www.kobelco.co.jp/about_kobelco/csr/information)

Water			
Substance	Regulation Value	Measurement Result (Max.)	
BOD(mg/L)	-	-	
SS(mg/L)	-	-	
Oil(mg/L)	-	-	

[Head Office]

Takasago Works

Air			
Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Boiler	130	51
	Heating Furnace	170	67
	Steel powder reduction	150	19
Dust(mg/Nm ³)	Boiler	100	2.7
	Heating Furnace	250	3.5
	Steel powder reduction	200	7.5

Water			
Substance	Regulation Value	Measurement Result (Max.)	
COD(mg/L)	15	6.9	
SS(mg/L)	26	12	
Oil(mg/L)	1.5	<0.5	

Company included in water quality data: Sputtering Target Division of Kobelco Research Institute, Inc.

Kobe Corporate Research Laboratories

Air			
Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Cold/hot water generator	48.57	36
Dust(mg/Nm ³)	Cold/hot water generator	50	<2

Water			
Substance	Regulation Value	Measurement Result (Max.)	
BOD(mg/L)	2,000	7.4	
SS(mg/L)	2,000	4	
Oil(mg/L)	5	<1	

Kobelco Construction Machinery Co., Ltd. (Hiroshima Factory)

Air			
Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Frame undercoating	230	21
	Frame finishing coating	230	11
	ATT coating	230	17
Dust(mg/Nm ³)	Frame undercoating	200	6
	Frame finishing coating	200	3
	ATT coating	200	6
	*ATT: Adhesive transfer tape		

Water			
Substance	Regulation Value	Measurement Result (Max.)	
COD(mg/L)	-	-	
SS(mg/L)	-	-	
Oil(mg/L)	35	23.5	

Kobelco Construction Machinery Co., Ltd. (Ogaki Factory)

Air			
Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	N/A	-	-
Dust(mg/Nm3)	N/A	-	-

Water			
Substance	Regulation Value	Measurement Result (Max.)	
COD(mg/L)	-	-	
SS(mg/L)	-	-	
Oil(mg/L)	-	-	

Kobelco Construction Machinery Co., Ltd. (Okubo Factory)

Air			
Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Drying Furnace	230	31
	Drying Furnace	230	22
	Drying Furnace	230	37
Dust(mg/Nm3)	Drying Furnace	200	<6
	Drying Furnace	200	4
	Drying Furnace	200	3

Water			
Substance	Regulation Value	Measurement Result (Max.)	
BOD(mg/L)	600	2.3	
SS(mg/L)	600	16	
Oil(mg/L)	5	1.8	

神鋼機器工業(株)

Air			
Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	N/A	-	-
Dust(mg/Nm3)	N/A	-	-

Water			
Substance	Regulation Value	Measurement Result (Max.)	
BOD(mg/L)	160	1	
SS(mg/L)	200	2	
Oil(mg/L)	5	<0.5	