Data on Soot and Smoke Emission and Effluent Discharge at Each KOBELCO Group Fiscal 2025

Soot and smoke and effluent quality data from all of Kobe Steel's business sites as well as its major Group companies are reported below.

- For soot and smoke, NOx and dust from representative facilities are included, along with regulation values.
- For effluent, COD (or biochemical oxygen demand (BOD) in some cases), suspended solids (SS) and oil are included, along with regulation values.

Soot and smoke Quality Data

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

Effluent Quality Data

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

【Steel & Aluminum】

Kakogawa Works

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Boiler	250	34
	Boiler	60	11
	Heating Furnace	100	33
Dust(mg/Nm³)	Boiler	100	21
	Boiler	50	3
	Heating Furnace	100	2

The latest environmental data from Kakogawa Works can be viewed from our website (updated monthly) (in Japanese only)
https://www.kobelco.co.jp/sustainability/environmental-data/information.html

Effluent

Substance	Regulation Value	Measurement Result (Max.)
COD(mg/L)	5	3
SS(mg/L)	20	14
Oil(mg/L)	1	<1

Kobe Wire Rod & Bar Plant

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Heating Furnace	130	99
	Heating Furnace	100	51
	Heating Furnace	170	89
Dust(mg/Nm³)	Heating Furnace	100	3
	Heating Furnace	100	1
	Heating Furnace	250	2

The latest environmental data from Kobe Wire Rod & Bar Plant can be viewed on our (updated monthly) (in Japanese only)
https://www.kobelco.co.jp/sustainability/environmental-data/information.html

Effluent

Substance	Regulation Value	Measurement Result (Max.)
COD(mg/L)	15	4.4
SS(mg/L)	30	1
Oil(mg/L)	1	<1

Moka Works

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Melting Furnace	180	63
	Boiler	250	29
	Waste Incinerator	300	<40
Dust(mg/Nm³)	Melting Furnace	300	<5
	Boiler	150	<1
	Waste Incinerator	250	5

Effluent

Substance	Regulation Value	Measurement Result (Max.)
BOD(mg/L)	25	11.6
SS(mg/L)	50	12.8
Oil(mg/L)	5	<1

Kobelco Wire Company, Ltd. (Amagasaki Works)

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Boiler	150	26
	Heating Furnace	130	14
	Heating Furnace	180	8
Dust(mg/Nm³)	Boiler	50	<1
	Heating Furnace	100	10
	Heating Furnace	100	6

Effluent

Substance	Regulation Value	Measurement Result (Max.)
BOD(mg/L)	20	3
SS(mg/L)	30	5
Oil(mg/L)	2	<1

Kobelco Wire Company, Ltd. (Onoe District)

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Heating Furnace	170	14
	Boiler	150	37
Dust(mg/Nm³)	Heating Furnace	250	12
	Boiler	100	<1

Effluent

Substance	Regulation Value	Measurement Result (Max.)
BOD(mg/L)	15	6.7
SS(mg/L)	25	5
Oil(mg/L)	2	<0.5

Kobelco Wire Company, Ltd. (Nishikinohama District)

soot and smoke

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

Effluent

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

Kobelco Bolt, Ltd.

soot and smoke

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

Effluent

Substance	Regulation Value	Measurement Result (Max.)
BOD(mg/L)	25	6
SS(mg/L)	70	1
Oil(mg/L)	3	<1

Kobelco Aluminum Wire Co., Ltd.

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Heating Furnace	180	83
Dust(mg/Nm³)	Heating Furnace	100	2

Effluent

Substance	Regulation Value	Measurement Result (Max.)
COD(mg/L)	25	2.9
SS(mg/L)	90	2
Oil(mg/L)	5	0.8

【Advanced Materials】

Chofu Works

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Boiler	150	26
	Melting Furnace	200	90
	Melting Furnace	180	36
Dust(mg/Nm³)	Boiler	100	7
	Melting Furnace	300	22
	Melting Furnace	200	28

Effluent

Substance	Regulation Value	Measurement Result (Max.)
COD(mg/L)	30	3.3
SS(mg/L)	50	3
Oil(mg/L)	2.5	<1

Daian Works

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Melting Furnace	120	110
	Boiler	110	46
	Heating Furnace	120	31
Dust(mg/Nm³)	Melting Furnace	100	78
	Boiler	100	<2
	Heating Furnace	100	<2

Effluent

Substance	Regulation Value	Measurement Result (Max.)
COD(mg/L)	10	6
SS(mg/L)	10	5
Oil(mg/L)	2(mineral oil 1)	<1(mineral oil <0.5)

Kobelco Leadmikk Co., Ltd.

soot and smoke

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

Effluent

Substance	Regulation Value	Measurement Result (Max.)
BOD(mg/L)	1500	15
SS(mg/L)	1500	1.9
Oil(mg/L)	Mineral oil 5 (Animal and Vegetable oil 150)	Mineral oil <0.5 (Animal and Vegetable oil <150)

【Welding】

Fujisawa Office

soot and smoke

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

Effluent

Substance	Regulation Value	Measurement Result (Max.)
BOD(mg/L)	60	7.2
SS(mg/L)	90	7
Oil(mg/L)	10	<1

Ibaraki Plant

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Drying Furnace	230	25
	Drying Furnace	230	21
	Boiler	150	24
Dust(mg/Nm³)	Drying Furnace	200	3
	Drying Furnace	200	3
	Boiler	100	1

Effluent

Substance	Regulation Value	Measurement Result (Max.)
BOD(mg/L)	300	42
SS(mg/L)	300	42
Oil(mg/L)	Mineral oil 5 (Animal and Vegetable oil 30)	Mineral oil <1 (Animal and Vegetable oil 6)

Saijo Plant

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Drying Furnace	250	44
	Drying Furnace	230	30
Dust(mg/Nm³)	Drying Furnace	350	18
	Drying Furnace	200	9

Effluent

Substance	Regulation Value	Measurement Result (Max.)
COD(mg/L)	-	-
SS(mg/L)	-	-
Oilmg/L)	5	0.5

Fukuchiyama Plant

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Heating Furnace	160	110
	Heating Furnace	160	46
	Boiler	135	27
Dust(mg/Nm³)	Heating Furnace	20	13
	Heating Furnace	20	8
	Boiler	10	3

Effluent

Substance	Regulation Value	Measurement Result (Max.)
COD(mg/L)	300	3.4
SS(mg/L)	300	3.1
Oil(mg/L)	3	0.5

Hanshin Yosetsu Kizai Co., Ltd.

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Melting Furnace	180	74
	Drying Furnace	150	27
	Baking Furnace	175	44
Dust(mg/Nm³)	Melting Furnace	100	<60
	Drying Furnace	100	<20
	Baking Furnace	100	<20

Effluent

Substance	Regulation Value	Measurement Result (Max.)
BOD(mg/L)	30	0.5
SS(mg/L)	30	2
Oil(mg/L)	–	–

【Machinery】

Kobelco Compressors Corporation (Harima Plant)

soot and smoke

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

Effluent

Substance	Regulation Value	Measurement Result (Max.)
COD(mg/L)	50	13
SS(mg/L)	90	12
Oil(mg/L)	5	0.5

Kobelco Machinery Engineering Co., Ltd.

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	N/A	–	–
Dust(mg/Nm³)	Melting Furnace	200	65
	Melting Furnace	200	2

Effluent

Substance	Regulation Value	Measurement Result (Max.)
BOD(mg/L)	40	4.60
SS(mg/L)	60	<1
Oil(mg/L)	5	<1
Company included in Effluent quality data: Kobelco Construction Machinery Co., Ltd. (Ogaki Factory)		

【Engineering】

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

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Firing Furnace	180	140
	Firing Furnace	180	79
	Firing Furnace	150	76
Dust(mg/Nm³)	Firing Furnace	25	<1
	Firing Furnace	25	13
	Firing Furnace	25	2

Effluent

Substance	Regulation Value	Measurement Result (Max.)
COD(mg/L)	28	12
SS(mg/L)	28	8
Oil(mg/L)	5	<1

【Construction Machinery】

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

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Frame finish coating	230	15
	ATT coating	230	18
Dust(mg/Nm³)	Frame finish coating	200	3
	ATT coating	200	8

*ATT:Adhesivetransfer tape

Effluent

Substance	Regulation Value	Measurement Result (Max.)
COD(mg/L)	–	–
SS(mg/L)	–	–
Oil(mg/L)	35	28.9

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

soot and smoke

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

Effluent

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

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

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Drying Furnace	230	22
	Drying Furnace	230	25
	Drying Furnace	230	30
Dust(mg/Nm³)	Drying Furnace	200	7
	Drying Furnace	200	5
	Drying Furnace	200	9

Effluent

Substance	Regulation Value	Measurement Result (Max.)
BOD(mg/L)	600	6.9
SS(mg/L)	600	16
Oil(mg/L)	5	2.1

【Electric Power】

Kobelco Power Kobe, Inc.

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Boiler	19(※1) 20(※2)	14.4
	Boiler	19(※1) 20(※2)	14.9
Dust(mg/Nm³)	Boiler	8	2
	Boiler	8	3

*1: During Usual operation、*2: Otherwise usual operation
The latest environmental data from Kobelco Power Kobe Inc. can be viewed on our.
(updated monthly) (in Japanese only)
https://www.kobelco.co.jp/sustainability/environmental-data/information.html

Effluent

Substance	Regulation Value	Measurement Result (Max.)
COD(mg/L)	15	3
SS(mg/L)	30	7
Oil(mg/L)	1	<1

Kobelco Power Kobe No. 2, Inc.

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Boiler	15(※1) 20(※2)	10.9
	Boiler	15(※1) 20(※2)	10.8
Dust(mg/Nm³)	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
(updated monthly) (in Japanese only)
https://www.kobelco.co.jp/sustainability/environmental-data/information.html

Effluent

Substance	Regulation Value	Measurement Result (Max.)
COD(mg/L)	15	2.9
SS(mg/L)	30	9
Oil(mg/L)	1	<1

Kobelco Power Moka, Inc.

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Gas turbine	70	4.1
	Gas turbine	70	4.1
	Boiler	130	66
Dust(mg/Nm³)	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
(updated monthly) (in Japanese only)
https://www.kobelco.co.jp/sustainability/environmental-data/information.html

Effluent

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

【Head Office】

Takasago Works

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Boiler	130	47
	Heating Furnace	170	53
	Steel powder reductior	150	28
Dust(mg/Nm³)	Boiler	100	6.3
	Heating Furnace	250	5.7
	Steel powder reductior	200	10

Effluent

Substance	Regulation Value	Measurement Result (Max.)
COD(mg/L)	15	6.3
SS(mg/L)	26	7
Oil(mg/L)	1.5	<0.5

Company included in Effluent quality data: Sputtering Target Division of Ko
Research Institute, Inc.

Kobe Corporate Research Laboratories

soot and smoke

Substance	Facility	Regulation Value	Measurement Result (Max.)
NOx(ppm)	Cold/hot water	150	35
Dust(mg/Nm³)	Cold/hot water	100	<1

Effluent

Substance	Regulation Value	Measurement Result (Max.)
BOD(mg/L)	2,000	8.4
SS(mg/L)	2,000	15
Oil(mg/L)	5	<1

Kobelco Gas Cylinder Co., Ltd.

soot and smoke

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

Effluent

Substance	Regulation Value	Measurement Result (Max.)
BOD(mg/L)	160	4.6
SS(mg/L)	200	<1
Oil(mg/L)	5	<0.5