

Kyocera Group Environmental Impact Data

Kyocera Chemical Corporation Kawasaki Plant



Profile

Location	9-2, Chidori-cho, Kawasaki-ku, Kawasaki-shi, Kanagawa
Products manufactured	Electrical insulating varnishes, casting resins, conductives pastes, liquid resins, copper clad laminates
Number of employees	149
Landarea	28,318m ²
Total floor space	15,175m ²

Environmental Performance

Items	Units		FY 2010		FY 2011	
	Amount	Specific consumption	Amount	Specific consumption	Amount	Specific consumption
Energy	kℓ (crudeoil based)	kℓ/M Yen	2,115	0.34	2,073	0.30
CO ₂	t-CO ₂	t-CO ₂ /M Yen	3,563	0.57	3,609	0.53
Water	m ³	m ³ /M Yen	28,562	4.56	26,357	3.84
Industrial waste emissions	kg	kg/M Yen	322,780	51.50	377,200	54.99
Effluent	m ³	m ³ /M Yen	34,677	5.53	29,823	4.35

Air related

Items	Facility	Legal standard	Internal criteria	Self-management standard	Performance for FY2011		
					Ave	Max	Measurement frequency
Soot and dust (g/Nm ³)	Flow-through boiler	0.1	—	0.007	<0.001	<0.001	Twice/year
	SK boiler	0.1	—	0.007	<0.001	<0.001	Twice/year
NO _x (ppm)	Flow-through boiler	150	—	50	33	40	Twice/year
	SK boiler	150	—	86	50	51	Twice/year
SO _x (Nm ³ /h)	N/A			—			

Air emission: total impact (units: tons)

Items	Total emission	
	FY 2010	FY 2011
NO _x	2.00	1.98
SO _x	0	0

Water quality

(units: mg/ℓ)

Items	Legal standard	Internal criteria	Self-management standard	Performance for FY2011		
				Ave	Max	Measurement frequency
Hydrogen ion concentration (pH)	5.8~8.6	—	6.5~8.2	7.8	7.5	Once/month
Biochemical oxygen demand (BOD)	60	—	54	27.1	44.0	Once/month
Chemical oxygen demand (COD)	60	—	54	12.8	25.0	Once/month
Suspended solid (SS)	90	—	81	12.2	22.0	Once/month
N-hexane extracts weight	5	—	1	1.0	1.0	Once/month
Phenols content	0.5	—	0.02	0.02	0.02	Once/month
Copper content	3	—	0.1	0.020	0.040	Once/month
Nitrogen content	60	—	54	9.1	22.0	Once/month
Phosphorous content	8	—	7.2	0.8	1.9	Once/month

Water pollution: total impact (units: tons)

Items	Total emission	
	FY 2010	FY 2011
Chemical oxygen demand (COD)	0.35	0.38
Biochemical oxygen demand (BOD)	0.76	0.81
Nitrogen	0.21	0.27
Phosphorous	0.019	0.023

Bad odors

No incidents exceeded standards.

Noise and vibration

No incidents exceeded standards.

PRTR substances

(units: tons)

Number	Substance	Handled amounts	Releases			Transfers to		Other amounts		
			Air	Water	Soil	Waste	Sewage	Recycled	Consumption	Removed by process
24	m-aminophenol	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0
31	antimony and its compounds	5.4	0.0	0.0	0.0	0.1	0.0	0.0	5.3	0.0
53	ethylbenzene	81.9	0.3	0.0	0.0	13.9	0.0	0.0	67.7	0.0
80	xylene	115.0	0.4	0.0	0.0	18.4	0.0	0.0	96.3	0.0
82	silver and its water-soluble compounds	5.9	0.0	0.0	0.0	0.1	0.0	0.0	5.8	0.0
83	cumene	2.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0
86	cresol	28.3	0.0	0.0	0.0	0.5	0.0	0.0	27.9	0.0
133	2-ethoxyethyl acetate; ethylene glycol monoethyl ether acetate	13.6	0.0	0.0	0.0	0.2	0.0	0.0	13.4	0.0
213	N,N-dimethylacetamide	1.2	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
232	N,N-dimethylformamide	1.2	0.0	0.0	0.0	0.2	0.0	0.9	0.0	0.0
240	styrene	461.2	0.0	0.0	0.0	7.8	0.0	0.0	453.3	0.0
265	tetrahydromethylphthalic anhydride	840.0	0.0	0.0	0.0	14.3	0.0	0.0	825.7	0.0
271	dimethyl terephthalate	26.0	0.0	0.0	0.0	0.4	0.0	0.0	25.6	0.0
296	1,2,4-trimethylbenzene	122.5	0.0	0.0	0.0	2.1	0.0	0.0	120.4	0.0
297	1,3,5-trimethylbenzene	26.5	0.0	0.0	0.0	0.5	0.0	0.0	26.1	0.0
298	tolylene diisocyanate	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
300	toluene	54.9	0.2	0.0	0.0	9.1	0.0	0.0	0.0	45.6
349	phenol	123.5	0.0	0.0	0.0	2.1	0.0	0.0	121.4	0.0
401	1,2,4-benzenetricarboxylic 1,2-anhydride	5.2	0.0	0.0	0.0	0.1	0.0	0.0	5.1	0.0
413	phthalic anhydride	30.5	0.0	0.0	0.0	0.5	0.0	0.0	30.0	0.0
414	maleic anhydride	77.4	0.0	0.0	0.0	1.3	0.0	0.0	76.1	0.0
446	4,4'-methylenedianiline	2.1	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0
Target chemical substances total		2,028.4	0.9	0.0	0.0	73.0	0.0	0.9	1,907.9	45.6