

Water Quality by Facility (Fiscal 2024) [DENSO CORPORATION]

Units: PH (none), Escherichia coli (units/ml), others (mg/L), — (no setting), permeability (cm), total amount of items measured (kg/D), ND (below the detection limit)

Regulatory values: Represent the most stringent values according to environmental laws, ordinances, and agreements. When an item is measured only once, the regulatory value is the number indicated in the "Highest" column.

Head Office

Items of Measurement	Regulatory Values	DENSO Standards	Measurement Values		
			Lowest	Average	Highest
BOD	25	12.5	1.5	2.3	3.8
Cadmium	0.03	0.02	0	0.001	0.001
Cyanide	0.8	0.2	0	0.01	0.01
COD (total amount)	185.58	185.58	15.5	28.16667	44.2
COD (Mn)	25	15	2.4	3.675	5.1
Escherichia coli count	3000	1500	0	13.45455	53
Chromium	2	1	0.01	0.01	0.01
Hexavalent chromium	0.5	0.1	0.01	0.01	0.01
Copper	1	0.5	0.01	0.01	0.01
Fluorine	8	6.4	0.6	0.816667	1.2
Iron	5	2.5	0.1	0.1	0.1
Manganese	3	2.5	0.1	0.1	0.1
Nitrogen (concentration)	120	15	4.5	6.866667	10.9
Nitrogen (total amount)	211.16	211.16	23.04	38.76917	100.14
Nickel	2	2	0.01	0.01	0.01
Oil (mineral oil)	5	2.5	1	1	1
Phosphorus (concentration)	16	2	0.16	0.4825	0.86
Phosphorus (total amount)	24.22	24.22	0.95	2.891667	5.82
Lead	0.08	0.02	0.01	0.01	0.01
pH	5.8~8.6	5.8~8.6	6.4~6.4	6.6~6.7	7.1~7.4
Phenol	1	1	0.01	0.0175	0.1
Tin	5	5	0.1	0.1	0.1
SS	30	15	1	1.058333	1.7
Permeability	-	20	30	30	30
Zinc	2	1.6	0.03	0.053333	0.11

Anjo Plant (No. 1)

Items of Measurement	Regulatory Values	DENSO Standards	Measurement Values		
			Lowest	Average	Highest
BOD	25	12.5	0.8	1.091667	1.3
Cadmium	0.05	0.02	0.001	0.001	0.001
COD (total amount)	46.15	46.15	6.4	9.95	14.4
COD (Mn)	25	15	3.6	4.541667	6.1
Escherichia coli count	300	300	0	21.91667	114
Chromium	2	1	0.01	0.01	0.01
Hexavalent chromium	0.5	0.1	0.01	0.01	0.01
Copper	1	0.5	0.01	0.01	0.01
Fluorine	8	6.4	0.1	0.108333	0.2
Iron	5	2.5	0.1	0.1	0.1
Manganese	5	2.5	0.1	0.1	0.1
Nitrogen (concentration)	60	15	4.4	5.875	7.1
Nitrogen (total amount)	69.23	69.23	7.9	11.96667	19
Nickel	2	2	0.01	0.013333	0.02
Oil (mineral oil)	5	2.5	1	1	1
Phosphorus (concentration)	8	2	0.07	0.1325	0.23
Phosphorus (total amount)	9.23	9.23	0.1	0.255833	0.46
Lead	0.1	0.02	0.01	0.01	0.01
pH	6.00~9.00	6.00~8.50	6.5~6.8	6.7~7.3	7~8
Phenol	5	1	0.01	0.01	0.01
Tin	-	5	0.1	0.1	0.1
SS	30	15	1	1.075	1.1
Zinc	2	1.60	0.29	0.39	0.5

Anjo Plant (No. 2)

Items of Measurement	Regulatory Values	DENSO Standards	Measurement Values		
			Lowest	Average	Highest
BOD	25	10	0.9	1.641667	2.5
Boron	10	8	0.1	0.15	0.2
Cadmium	0.03	ND	ND	ND	ND
Cyanide	1.0	ND	0.01	0.01	0.01
COD (total amount)	46.15	46.15	2.8	4.258333	6.5
COD (Mn)	25	10	3	4.891667	6.7
Escherichia coli count	3000	300	0	17.16667	83
Chromium	0.2	0.2	0.01	0.01	0.01
Hexavalent chromium	0.05	0.05	0.01	0.01	0.01
Copper	0.2	0.2	0.01	0.01	0.01
Fluorine	2	2	0.1	0.1	0.1
Iron	2	2	0.1	0.1	0.1
Manganese	2	2	0.1	0.1	0.1
Nitrogen (concentration)	120	15	5.9	8.183333	10.2
Nitrogen (total amount)	69.23	69.23	4.6	6.075	10.2
Nickel	-	2	0.01	0.01	0.01
Oil (mineral oil)	2	2	1	1	1
Phosphorus (concentration)	16	2	0.13	0.526667	0.79
Phosphorus (total amount)	9.23	9.23	0.11	0.435	1.02
Lead	0.1	0.02	0.01	0.01	0.01
pH	6.0~8.5	6.0~8.5	6.7~7.3	7.0~7.5	7.3~8
Phenol	0.2	0.2	0.01	0.01	0.01
Tin	-	5	0.1	0.1	0.1
SS	30	10	1	1	1
Zinc	2.0	1.6	0.09	0.2	0.37

Nishio Plant

Items of Measurement	Regulatory Values	DENSO Standards	Measurement Values		
			Lowest	Average	Highest
BOD	25	10	0.5	0.675	1.2
Boron	10	8	1.3	1.3	1.3
Cadmium	0.03	0.01	0.01	0.01	0.01
COD (total amount)	102.1	102.1	11.4	24.25	39.7
COD (Mn)	25	10	3.2	4.783333	5.8
Escherichia coli count	3000	300	0	2.083333	18
Chromium	2	0.1	0.01	0.01	0.01
Hexavalent chromium	0.50	0.05	0.01	0.01	0.01
Copper	1	0.5	0.01	0.01	0.01
Fluorine	8	5	0.1	0.283333	0.7
Iron	10	3	0.1	0.103333	0.14
Manganese	10	3	0.1	0.268333	0.56
Nitrogen (concentration)	60	15	4.4	6.058333	8.9
Nitrogen (total amount)	128.5	128.5	15.2	23.39167	63.1
Phosphorus (concentration)	8	2	0.03	0.2125	1.34
Phosphorus (total amount)	14.3	14.3	0.15	0.648333	3.34
Lead	0.1	0.02	0.01	0.01	0.01
pH	5.8~8.6	5.8~8.3	6.6~7.3	6.8~7.4	7~7.6
Phenol	5	0.5	0.01	0.0325	0.1
SS	30	10	1	1.941667	4.6
Permeability	-	20	30	30	30
Zinc	2	1	0.04	0.089167	0.18

Takatana Plant

Items of Measurement	Regulatory Values	DENSO Standards	Measurement Values		
			Lowest	Average	Highest
BOD	25	10	0.6	1.066667	2.4
Boron	10	8	0.1	0.1	0.1
Cadmium	ND	ND	0.001	0.001	0.001
COD (total amount)	51.93	51.93	2.6	3.466667	5.8
COD (Mn)	25	10	2.6	3.575	4.3
Escherichia coli count	3000	300	0	1.666667	5
Chromium	0.2	0.2	0.01	0.01	0.01
Hexavalent chromium	0.05	0.05	0.01	0.01	0.01
Copper	0.2	0.2	0.01	0.01	0.01
Fluorine	2	2	0.1	0.1	0.1
Iron	2	2	0.1	0.1	0.1
Manganese	2	2	0.1	0.1	0.1
Nitrogen (concentration)	60	15	6.7	7.9075	9.24
Nitrogen (total amount)	27.45	27.45	5	6.525	8
Nickel	-	2	0.01	0.01	0.01
Oil (mineral oil)	2	1	1	1	1
Phosphorus (concentration)	8	2	0.05	0.589167	1.05
Phosphorus (total amount)	2.78	2.78	0.02	0.463333	0.91
Lead	0.1	0.02	0.01	0.01	0.01
pH	5.8~8.6	6.5~8.5	6.9~7.5	7.0~7.7	7.3~7.9
Phenol	0.2	0.2	0.01	0.01	0.01
Tin	-	5	0.1	0.1	0.1
SS	30	10	1	1.066667	1.8
Permeability	-	20	30	30	30
Zinc	2.0	1.6	0.04	0.055833	0.07

Daian Plant

Items of Measurement	Regulatory Values	DENSO Standards	Measurement Values		
			Lowest	Average	Highest
BOD	25	10	1.1	2.04	3.3
Cadmium	0.1	0	ND	ND	ND
COD (total amount)	61.3	61.3	8.8	10.91667	13
COD (Mn)	25	10	4	4.866667	7
Escherichia coli count	3000	300	0	0.083333	1
Chromium	2.0	0.4	0.01	0.01	0.01
Hexavalent chromium	0.5	0.1	0.01	0.01	0.01
Copper	1.0	0.2	0.01	0.0175	0.04
Fluorine	8	6.4	1	2.058333	3.3
Iron	10	2	0.1	0.1	0.1
Total mercury	0.005	0	ND	ND	ND
Manganese	10	2	0.1	0.1	0.1
Nitrogen (concentration)	60	15	7	7.609167	8.51
Nitrogen(total amount)	90.6	90.6	14.71	17.70833	21
Nickel	2	2	0.01	0.0325	0.1
Oil (mineral oil)	5	2	1	1	1
Phosphorus(concentration)	8.0	1.5	0	0.3925	1
Phosphorus(total amount)	9.5	9.5	0	0.4475	1
Lead	0.1	0.02	0.01	0.01	0.01
pH	5.8~8.6	5.8~8.6	6.9~7.4	6.9~7.5	7.1~7.6
Phenol	5	0.2	0.01	0.01	0.01
Selenium	0.1	0.02	0.01	0.01	0.01
Tin	-	5	0.01	0.0925	0.1
SS	90	10	1	1.308333	1.6
Permeability	-	20	30	30	30
Zinc	2.0	1.6	0.02	0.078	0.2

Kota Plant

Items of Measurement	Regulatory Values	DENSO Standards	Measurement Values		
			Lowest	Average	Highest
BOD	25	10	0.6	0.6	0.6
Cadmium	0.10	0.02	0.01	0.01	0.01
COD (total amount)	94.7	94.7	23.7	23.7	23.7
COD (Mn)	25	10	5.9	5.9	5.9
Escherichia coli count	3000	300	10	10	10
Chromium	0.1	0.1	0.01	0.01	0.01
Hexavalent chromium	0.05	0.05	0.01	0.01	0.01
Copper	0.5	0.5	0.01	0.01	0.01
Fluorine	5	5	2.4	2.4	2.4
Iron	3	3	0.1	0.1	0.1
Manganese	3	3	0.1	0.1	0.1
Nitrogen (concentration)	120	15	7.2	7.2	7.2
Nitrogen (total amount)	128.4	128.4	28.4	28.4	28.4
Oil (mineral oil)	2	1	1	1	1
Phosphorus(concentration)	16	2	0.04	0.04	0.04
Phosphorus (total amount)	10.4	10.4	0.14	0.14	0.14
Lead	0.1	0.02	0.01	0.01	0.01
pH	5.8~8.6	5.8~8.3	7.28~7.54	7.28~7.54	7.28~7.54
Phenol	0.3	0.25	0.01	0.01	0.01
SS	30	10	1.6	1.6	1.6
Permeability	-	20	30	30	30
Zinc	2	1	0.09	0.09	0.09

Toyohashi Plant

Items of Measurement	Regulatory Values	DENSO Standards	Measurement Values		
			Lowest	Average	Highest
BOD	25	10	0.5	0.5	0.5
Boron	230	184	4.1	4.1	4.1
Cadmium	0.01	0.01	0.01	0.01	0.01
COD (total amount)	26.3	26.3	4.8	4.8	4.8
COD (Mn)	25	10	7.3	7.3	7.3
Escherichia coli count	3000	1500	0	0	0
Chromium	1	1	0.01	0.01	0.01
Hexavalent chromium	0.05	0.05	0.01	0.01	0.01
Copper	0.5	0.5	0.01	0.01	0.01
Fluorine	7	7	0.1	0.1	0.1
Iron	5	2.5	0.13	0.13	0.13
Manganese	5	2.5	0.1	0.1	0.1
Nitrogen (concentration)	120	15	11.3	11.3	11.3
Nitrogen (total amount)	42.6	42.6	7.9	7.9	7.9
Oil (mineral oil)	2	1	1	1	1
Phosphorus(concentration)	-	2	0.35	0.35	0.35
Phosphorus (total amount)	5.1	5.1	0.2	0.2	0.2
Lead	0.1	0.02	0.01	0.01	0.01
pH	5.8~8.5	6.0~8.5	7.1~7.5	7.1~7.5	7.1~7.5
Phenol	0.5	0.25	0.01	0.01	0.01
SS	30	10	1	1	1
Permeability	-	20	30	30	30
Zinc	2.0	1.6	0.16	0.16	0.16

Agui Plant

Items of Measurement	Regulatory Values	DENSO Standards	Measurement Values		
			Lowest	Average	Highest
BOD	25	12.5	1	1	1
Boron	10	8	0.1	0.1	0.1
Cadmium	0.03	0.02	0.001	0.001	0.001
COD (total amount)	10.8	10.8	1.3	1.3	1.3
COD (Mn)	25	15	4.4	4.4	4.4
Escherichia coli count	3000	1500	33	33	33
Chromium	1	1	0.01	0.01	0.01
Hexavalent chromium	0.25	0.10	0.01	0.01	0.01
Copper	0.5	0.5	0.01	0.01	0.01
Fluorine	8	6.4	0.1	0.1	0.1
Iron	5	2.5	0.1	0.1	0.1
Manganese	5	2.5	0.1	0.1	0.1
Nitrogen (concentration)	120	30	4.9	4.9	4.9
Nitrogen (total amount)	14.1	14.1	1.5	1.5	1.5
n-Hexane	1	1	0	0	0
Oil (mineral oil)	2	1	1	1	1
Phosphorus(concentration)	16	3	0.41	0.41	0.41
Phosphorus(total amount)	1.4	1.4	0.123	0.123	0.123
Lead	0.1	0.02	0.01	0.01	0.01
pH	5.8~8.6	5.8~8.6	7.28~7.68	7.28~7.68	7.28~7.68
Phenol	1	0.5	0.01	0.01	0.01
SS	30	15	1	1	1
Permeability	-	20	30	30	30
Zinc	2.0	1.6	0.07	0.07	0.07

Advanced Research and Innovation Center

Items of Measurement	Regulatory Values	DENSO Standards	Measurement Values		
			Lowest	Average	Highest
BOD	25	12.5	0.6	0.6	0.6
Cadmium	0.1	0.02	0.001	0.001	0.001
COD (total amount)	15.5	15.5	1.3	1.3	1.3
COD (Mn)	25	15	4.4	4.4	4.4
Escherichia coli count	3000	1500	9	9	9
Chromium	2	1	0.01	0.01	0.01
Hexavalent chromium	0.5	0.1	0.01	0.01	0.01
Copper	1.0	0.5	0.01	0.01	0.01
Fluorine	7.5	6.4	0.3	0.3	0.3
Iron	10	2.5	0.1	0.1	0.1
Manganese	10	2.5	0.1	0.1	0.1
Nitrogen (concentration)	120	20	9.8	9.8	9.8
Nitrogen(total amount)	14.80	13.56	3.1	3.1	3.1
n-Hexane	1	1	0	0	0
Nickel	-	2	0.01	0.01	0.01
Phosphorus(concentration)	-	3	0.21	0.21	0.21
Phosphorus(total amount)	2.3	0.96	0.07	0.07	0.07
Lead	0.1	0.02	0.01	0.01	0.01
pH	5.8~8.6	5.8~8.6	6.5~7.8	6.5~7.8	6.5~7.8
Phenol	1	0.5	0.01	0.01	0.01
Tin	-	5	0.1	0.1	0.1
SS	30	15	1	1	1
Permeability	-	20	30	30	30
Zinc	2	1.6	0.05	0.05	0.05

Zenmyo Plant

Items of Measurement	Regulatory Values	DENSO Standards	Measurement Values		
			Lowest	Average	Highest
BOD	25	10	0.7	0.7	0.7
Boron	10	8	0.2	0.2	0.2
Cadmium	0.1	0.02	0.01	0.01	0.01
COD (total amount)	14.4	14.4	1.7	1.7	1.7
COD (Mn)	25	10	4.4	4.4	4.4
Escherichia coli count	3000	300	0	0	0
Chromium	0.1	0.1	0.01	0.01	0.01
Hexavalent chromium	0.05	0.05	0.01	0.01	0.01
Copper	0.5	0.5	0.01	0.01	0.01
Fluorine	8	6.4	0.2	0.2	0.2
Iron	2.5	2.5	0.06	0.06	0.06
Manganese	2.5	2.5	0.01	0.01	0.01
Nitrogen (concentration)	120	10	4.9	4.9	4.9
Nitrogen (total amount)	24.5	24.5	1.9	1.9	1.9
Oil (mineral oil)	2	1	1	1	1
Phosphorus(concentration)	8	1	0.22	0.22	0.22
Phosphorus(total amount)	2.63	2.63	0.09	0.09	0.09
Lead	0.08	0.02	0.01	0.01	0.01
pH	5.8~8.3	5.8~8.3	7.5~8	7.5~8	7.5~8
Phenol	0.5	0.25	0.01	0.01	0.01
SS	30	10	0.9	0.9	0.9
Permeability	-	20	30	30	30
Zinc	2	1	0.1	0.1	0.1

Nukata Proving Ground

Items of Measurement	Regulatory Values	DENSO Standards	Measurement Values		
			Lowest	Average	Highest
BOD	25	12.5	0.9	0.9	0.9
COD (Mn)	25	20	3.3	3.3	3.3
Escherichia coli count	3000	100	20	20	20
Phosphorus(concentration)	0.2	0.2	0.1	0.1	0.1
pH	5.8~8.5	6.5~8.5	6.9~7.4	6.9~7.4	6.9~7.4
SS	70	20	1	1	1
Permeability	30	30	30	30	30

Kosai Plant

Items of Measurement	Regulatory Values	DENSO Standards	Measurement Values		
			Lowest	Average	Highest
BOD	20	12	0.5	0.5	0.5
Boron	0.002	0.002	0.001	0.001	0.001
Cadmium	25	12	4.7	4.7	4.7
COD (Mn)	3000	300	0	0	0
Escherichia coli count	0.4	0.08	0.05	0.05	0.05
Chromium	0.1	0.05	0.05	0.05	0.05
Hexavalent chromium	1	0.4	0.01	0.01	0.01
Copper	8	4	0.1	0.1	0.1
Fluorine	10	4	0.1	0.1	0.1
Iron	10	5	0.1	0.1	0.1
Manganese	120	25	5.5	5.5	5.5
Nitrogen (concentration)	5	1.5	0	0	0
n-Hexane	16	2	0.99	0.99	0.99
Phosphorus(concentration)	0.1	0.01	0.01	0.01	0.01
Copper	5.8~8.6	6.3~7.8	7.2~7.4	7.2~7.4	7.2~7.4
pH	0.2	0.15	0.01	0.01	0.01
Phenol	30	12	2.2	2.2	2.2
SS	1	0.4	0.3	0.3	0.3
Permeability	20	12	0.5	0.5	0.5
Zinc	0.002	0.002	0.001	0.001	0.001

Toyohashi East Plant

Items of Measurement	Regulatory Values	DENSO Standards	Measurement Values		
			Lowest	Average	Highest
BOD	25	10	0.5	0.5	0.5
Cadmium	0.1	0.01	0.001	0.001	0.001
COD (Mn)	25	12	2.3	2.3	2.3
Escherichia coli count	3000	150	0	0	0
Chromium	2	1	0.05	0.05	0.05
Hexavalent chromium	0.50	0.05	0.05	0.05	0.05
Copper	2	1	0.01	0.01	0.01
Fluorine	8	4	0.1	0.1	0.1
Iron	10	4	0.1	0.1	0.1
Manganese	10	5	0.1	0.1	0.1
Nitrogen (concentration)	120	15	9.6	9.6	9.6
n-Hexane	2	1.5	0	0	0
Phosphorus(concentration)	16.0	1.5	0.08	0.08	0.08
Phosphorus(total amount)	0.93	0.47	0	0	0
Lead	0.1	0.01	0.01	0.01	0.01
pH	5.8~8.6	6.3~7.8	6.9~7.2	6.9~7.2	6.9~7.2
Phenol	0.5	0.3	0.01	0.01	0.01
SS	30	12	1	1	1
Permeability	30	30	30	30	30
Zinc	5	2	0.01	0.01	0.01

Hirose Plant

Items of Measurement	Regulatory Values	DENSO Standards	Measurement Values		
			Lowest	Average	Highest
pH	5.8~8.6	6.1~8.3	7.3~7.6	7.3~7.6	7.3~7.6
BOD	10	8	0.7	0.7	0.7
SS	10	8	1	1	1
Phenol	0.5	0.4	0.01	0.01	0.01
Copper	0.2	0.16	0.01	0.01	0.01
Zinc	1	0.8	0.1	0.1	0.1
Iron	2.5	2	0.1	0.1	0.1
Manganese	2.5	2	0.1	0.1	0.1
Chromium	0.2	0.16	0.01	0.01	0.01
Escherichia coli	3000	2400	0	0	0
Total nitrogen (T-N)	60(30)	6.4	0.12	0.12	0.12
Total phosphorus (T-P)	8(4)	1.6	0.38	0.38	0.38
Cadmium	0.01	0.01	0.01	0.01	0.01
Cyanide (CN)	0.1	0.08	0.08	0.08	0.08
Organic phosphorus	0.1	0.08	0.08	0.08	0.08
Lead	0.05	0.04	0.04	0.04	0.04
Hexavalent chromium	0.05	0.04	0.04	0.04	0.04
Arsenic	0.01	0.01	0.01	0.01	0.01
Total mercury (T-Hg)	0.0005	0.0005	0.0005	0.0005	0.0005
Alkyl mercury compounds	検出されないこと	0.0005	0.0005	0.0005	0.0005
Polychlorinated biphenyls	0.0005	0.0004	0.0004	0.0004	0.0004
Trichloroethylene	0.15	0.12	0.12	0.12	0.12
Tetrachloroethylene	0.05	0.04	0.04	0.04	0.04
Dichloromethane	0.1	0.08	0.08	0.08	0.08
Carbon tetrachloride	0.002	0.0016	0.0016	0.0016	0.0016
1,2-Dichloroethane	0.004	0.003	0.003	0.003	0.003
1,1-Dichloroethylene	0.1	0.08	0.08	0.08	0.08
Cis-1,2-Dichloroethylene	0.2	0.16	0.16	0.16	0.16
1,1,1-Trichloroethane	1.5	1.20	1.20	1.20	1.20
1,1,2-Trichloroethane	0.006	0.005	0.005	0.005	0.005
1,3-Dichloropropene	0.002	0.002	0.002	0.002	0.002
Thiuram	0.006	0.005	0.005	0.005	0.005
Simazine	0.003	0	0	0	0
Thiobencarb	0.02	0.02	0.02	0.02	0.02
Benzene	0.01	0.01	0.01	0.01	0.01

Selenium (Se)	0.01	0.01	0.01	0.01	0.01
Fluorine	4	3.2	3.2	3.2	3.2
Boron	5	4	4	4	4
Ammonium compounds, nitrites, and nitric acid compounds	50	40.0	40.0	40.0	40.0
1,4-Dioxane	0.25	0.20	0.20	0.20	0.20