

National Ceramic Industries Australia Limited

Racecourse Road Rutherford NSW 2320

Environment Protection Licence Number 11956

<https://apps.epa.nsw.gov.au/prpoeoapp/>

2021 Annual Emissions Monitoring Summary

Reported: 16 August 2021

Published: 20 August 2021

Monitoring Location	Date Sampled	Pollutant	Measured Level	EPL Limit
EPL Point 1 (Clay Preparation)	12 April 2021	Dry gas density (kg/m ³)	1.29	-
		Moisture content (%)	1.6	-
		Molecular weight (g/mole)	28.8	-
		Solid Particles (mg/m ³)	0.49	20
		Temperature degrees (°C)	25	-
		Velocity (m/s)	16	-
		Volumetric flowrate (m ³ /s)	11	-
EPL Point 3 (Pressing and Drying)	13 April 2021	Dry gas density (kg/m ³)	1.29	-
		Moisture content (%)	0.8	-
		Molecular weight (g/mole)	28.8	-
		Solid Particles (mg/m ³)	8.4	20
		Temperature degrees (°C)	25	-
		Velocity (m/s)	13	-
		Volumetric flowrate (m ³ /s)	9.7	-
EPL Point 5 (Dryer 1)	15 April 2021	Dry gas density (kg/m ³)	1.29	-
		Moisture content (%)	8.9	-
		Molecular weight (g/mole)	28.9	-
		Solid Particles (mg/m ³)	8.6	20
		Temperature degrees (°C)	126	-
		Velocity (m/s)	11	-
		Volumetric flowrate (m ³ /s)	1.3	-
EPL Point 6 (Dryer 2)	15 April 2021	Dry gas density (kg/m ³)	1.29	-
		Moisture content (%)	8.7	-
		Molecular weight (g/mole)	28.9	-
		Solid Particles (mg/m ³)	11	20
		Temperature degrees (°C)	119	-
		Velocity (m/s)	12	-
		Volumetric flowrate (m ³ /s)	1.4	-
EPL Point 9 (Glaze Line)	13 April 2021	Dry gas density (kg/m ³)	1.29	-
		Moisture content (%)	1.4	-
		Molecular weight (g/mole)	28.8	-
		Solid Particles (mg/m ³)	0.24	20
		Temperature degrees (°C)	26	-
		Velocity (m/s)	12	-
		Volumetric flowrate (m ³ /s)	8.7	-
EPL Point 10 (Selection Line)	13 April 2021	Dry gas density (kg/m ³)	1.29	-
		Moisture content (%)	1.1	-
		Molecular weight (g/mole)	28.8	-
		Solid Particles (mg/m ³)	<0.13	20
		Temperature degrees (°C)	30	-
		Velocity (m/s)	4.7	-
		Volumetric flowrate (m ³ /s)	0.80	-
EPL Point 12 (Spray Dryer)	12 April 2021	Dry gas density (kg/m ³)	1.29	-
		Moisture content (%)	15	-
		Molecular weight (g/mole)	28.8	-
		Solid Particles (mg/m ³)	2.8	20
		Temperature degrees (°C)	82	-
		Velocity (m/s)	19	-
		Volumetric flowrate (m ³ /s)	18	-

Volumetric flow rate is corrected to 0° Celsius, dry gas and one atmosphere pressure

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EPL Point 14 (Kiln 1)	18 May 2021 15 June 2021	Cadmium (mg/m ³)	0.0081	0.1
		Carbon dioxide (percent)	1.8	-
		Dry gas density (kg/m ³)	1.30	-
		Hazardous substances (mg/m ³)	0.21	1
		Hydrogen Fluoride (mg/m ³)	9.5	5
		Mercury (mg/m ³)	0.0024	0.1
		Moisture content (%)	4.9	-
		Molecular weight (g/mole)	29.0	-
		Nitrogen Oxides at 18%O ₂ (mg/m ³)	81	100
		Oxygen (percent)	17.2	-
		Solid Particles @ 18% O ₂ (mg/m ³)	16	20
		H ₂ SO ₄ & SO ₃ (as SO ₃) (mg/m ³)	32	100
		Velocity (m/s)	13.7	-
		Volumetric flowrate (m ³ /s)	5.6	-
EPL Point 15 (Kiln 2)	19 May 2021	Cadmium (mg/m ³)	0.0050	0.1
		Carbon dioxide (percent)	2.6	-
		Dry gas density (kg/m ³)	1.30	-
		Hazardous substances (mg/m ³)	0.16	1
		Hydrogen Fluoride (mg/m ³)	8.1	5
		Mercury (mg/m ³)	0.0033	0.1
		Moisture content (%)	6.5	-
		Molecular weight (g/mole)	29.1	-
		Nitrogen Oxides at 18%O ₂ (mg/m ³)	76	100
		Oxygen (percent)	16.1	-
		Solid Particles @ 18% O ₂ (mg/m ³)	15	20
		H ₂ SO ₄ & SO ₃ (as SO ₃) (mg/m ³)	24	100
		Velocity (m/s)	15.5	-
		Volumetric flowrate (m ³ /s)	6	-
EPL Point 18 (Hot Air Cooler 1)	14 April 2021	Dry gas density (kg/m ³)	1.29	-
		Moisture content (%)	1.2	-
		Molecular weight (g/mole)	28.8	-
		Solid Particles (mg/m ³)	1.2	5
		Temperature degrees (°C)	140	-
		Velocity (m/s)	8.9	-
		Volumetric flowrate (m ³ /s)	4.6	-
EPL Point 19 (Hot Air Cooler 2)	14 April 2021	Dry gas density (kg/m ³)	1.29	-
		Moisture content (%)	2.2	-
		Molecular weight (g/mole)	28.8	-
		Solid Particles (mg/m ³)	1.3	5
		Temperature degrees (°C)	129	-
		Velocity (m/s)	7.8	-
		Volumetric flowrate (m ³ /s)	4.1	-

Volumetric flow rate is corrected to 0° Celsius, dry gas and one atmosphere pressure