

ICL Performance Products LP
LFP Customer Innovation and Qualification Center - Potential Emission Calculations
Emissions Summary

Pollutant	Uncontrolled Emissions (ton/yr) ¹							Controlled Emissions (ton/yr)						
	EP-01 Material Batching Room	EP-02 Reactor	EP-03 Spray Dryer ²	EP-04 Kilns - Thermal Combustor	EP-05 Jet Mill - Product Collector	EP-06 Central Vacuum System	Facility- Wide Emissions	EP-01 Material Batching Room	EP-02 Reactor	EP-03 Spray Dryer	EP-04 Kilns - Thermal Combustor	EP-05 Jet Mill - Product Collector	EP-06 Central Vacuum System	Facility- Wide Emissions
particulate matter (PM)	0.01		5.5	0.01	0.7	0.16	6.4	3E-04		0.5	0.005	0.7	2E-04	1.2
PM10, filterable	0.007		0.01	0.001	0.7	0.08	0.8	1E-04		0.007	0.001	0.7	8E-05	0.7
nitrogen oxides (NO _x)			0.4	0.1			0.4			0.4	0.1			0.4
carbon monoxide (CO)			0.3	37.5			37.8			0.3	0.4			0.7
sulfur dioxide (SO ₂)			0.002	4E-04			0.003			0.002	4E-04			0.003
volatile organic compounds (VOC)			0.02	1.3			1.4			0.02	0.017			0.04
2-methylnaphthalene			9E-08	2E-08			1E-07			9E-08	2E-08			1E-07
3-methylchloranthrene			7E-09	1E-09			8E-09			7E-09	1E-09			8E-09
7,12-dimethylbenz(a)anthracene			6E-08	1E-08			7E-08			6E-08	1E-08			7E-08
acenaphthene			7E-09	1E-09			8E-09			7E-09	1E-09			8E-09
acenaphthylene			7E-09	1E-09			8E-09			7E-09	1E-09			8E-09
anthracene			9E-09	2E-09			1E-08			9E-09	2E-09			1E-08
benz(a)anthracene			7E-09	1E-09			8E-09			7E-09	1E-09			8E-09
benzene			8E-06	1E-06			9E-06			8E-06	1E-06			9E-06
benzo(a)pyrene			4E-09	8E-10			5E-09			4E-09	8E-10			5E-09
benzo(b)fluoranthene			7E-09	1E-09			8E-09			7E-09	1E-09			8E-09
benzo(g,h,i)perylene			4E-09	8E-10			5E-09			4E-09	8E-10			5E-09
benzo(k)fluoranthene			7E-09	1E-09			8E-09			7E-09	1E-09			8E-09
chrysene			7E-09	1E-09			8E-09			7E-09	1E-09			8E-09
dibenzo(a,h)anthracene			4E-09	8E-10			5E-09			4E-09	8E-10			5E-09
dichlorobenzene			4E-06	8E-07			5E-06			4E-06	8E-07			5E-06
fluoranthene			1E-08	2E-09			1E-08			1E-08	2E-09			1E-08
fluorene			1E-08	2E-09			1E-08			1E-08	2E-09			1E-08
formaldehyde			3E-04	5E-05			3E-04			3E-04	5E-05			3E-04
hexane			0.007	0.001			0.008			0.007	0.001			0.008
indeno(1,2,3-cd)pyrene			7E-09	1E-09			8E-09			7E-09	1E-09			8E-09
naphthalene			2E-06	4E-07			3E-06			2E-06	4E-07			3E-06
phenanthrene			6E-08	1E-08			7E-08			6E-08	1E-08			7E-08
pyrene			2E-08	3E-09			2E-08			2E-08	3E-09			2E-08
toluene			1E-05	2E-06			1E-05			1E-05	2E-06			1E-05
arsenic			7E-07	1E-07			9E-07			7E-07	1E-07			9E-07
beryllium			4E-08	8E-09			5E-08			4E-08	8E-09			5E-08
cadmium			4E-06	8E-07			5E-06			4E-06	8E-07			5E-06
chromium			5E-06	1E-06			6E-06			5E-06	1E-06			6E-06
cobalt			3E-07	6E-08			4E-07			3E-07	6E-08			4E-07
manganese			1E-06	3E-07			2E-06			1E-06	3E-07			2E-06
mercury			1E-06	2E-07			1E-06			1E-06	2E-07			1E-06
nickel			8E-06	1E-06			9E-06			8E-06	1E-06			9E-06
selenium			9E-08	2E-08			1E-07			9E-08	2E-08			1E-07
Total HAPs			0.007	0.001			0.008			0.007	0.001			0.008

¹Uncontrolled PM emissions from EP-03 and EP-05 include the use of a product collector inherent to the process.

²Emissions from the EP-03 product collector are controlled with a HEPA filter.