

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 2058

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY**
S-1	Furnace Baghouse Stack Induction Furnaces 1 and 2, Coreless Furnaces 1 and 2, and Furnace Charging and Taping Inoculation	PM ₁₀	3.16	7.58
		Pb (6)	0.09	0.21
S-2	Green Sand Baghouse Stack New Sand Silo, Bond Silo, Shakeout, and Vibrator	PM ₁₀	2.27	5.45
		Total Silica (6)	2.27	5.45
S-3	Air Set Baghouse Stack Sand Cooler/Classifier and Shakeout	PM ₁₀	0.93	2.24
		Total Silica (6)	0.93	2.24
S-4	Cleaning Baghouse Stack Tumble Blaster, Table Blaster, and 3 Standing Grinders	PM ₁₀	1.10	1.19
S-5	Core Oven Burner Vent	PM ₁₀	0.08	0.08
		NO _x	1.00	1.05
		CO	0.84	0.88
		SO ₂	<0.01	<0.01
		VOC	0.06	0.06
S-6	Core Oven Baghouse Stack	PM ₁₀	0.08	0.08
		Total Silica (6)	0.08	0.08

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			lb/hr	TPY**
AS-1 and AS-2	Air Set Resin Tanks Vents (5)	VOC	0.21	<0.01
		Phenol (7)	0.01	<0.01
		Formaldehyde (7)	0.20	<0.01
F-1 and F1-A	Main Building Vents 1 and 2 (5) Resin and Acid Day Tanks, Acid Storage Tank, Sand Day Tank, Casting, Pouring, Cooling, Reclaim Sand Tank, Sand Silo, Magnetic Separator, Scrap Storage, Taping, Ladles, Air Set Mold Coating, and 5 Molding Machines	PM ₁₀	19.38	30.51
		Total Silica (6)	19.36	30.50
		Phenol (7)	5.00	5.63
		Formaldehyde (7)	0.61	0.63
		VOC	8.61	8.00
		Toluenesulfonic Acid	0.20	0.50
		NO _x	0.16	0.10
		CO	0.04	0.03
		Alcohol (7)	3.00	1.75
F-2	Core Building Fugitives (4) Core Shell Machines and Mixer	PM ₁₀	0.26	0.41
		Total Silica (6)	0.26	0.41
		Phenol	0.17	0.31
		Formaldehyde	<0.001	<0.001
		VOC 0.90	1.76	
F-3	Cleaning Building Fugitives (4) Grinders and Misc Hand Held Machines/Tools	PM ₁₀	0.33	0.65
CT-1	Channel Furnaces Cooling Tower	PM ₁₀	<0.01	<0.02
CT-2	Air Set Cooling Tower	PM ₁₀	<0.01	<0.01
CT-3	Coreless Furnaces Cooling Tower	PM ₁₀	<0.01	<0.02

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- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter.
Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
 - Pb - lead and lead compounds
 - Silica - sand used in molds
 - NO_x - total oxides of nitrogen
 - CO - carbon monoxide
 - SO₂ - sulfur dioxide
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - Phenol - a class of aromatic organic compounds with one or more hydroxy groups attached to benzene ring.
 - Toluenesulfonic Acid - acid catalyst for phenolic no-bake resin used in core making
- (4) Fugitive emissions are an estimate only.
- (5) Sum of emissions from both EPN's F-1 and F1-A
- (6) Included in the PM values
- (7) Included in the VOC value

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated January 31, 2006