

TCEQ Coatings Sources

Current Best Available Control Technology (BACT) Guidelines

Abrasive Blasting Operations

This information is maintained by the Combustion/Coatings Section and is subject to change. Last update 05/2015.

Year	Source Type	Pollutant	Minimum Acceptable Control	Control Efficiency or Details
2015	Enclosed Abrasive Blasting	Particulate matter including PM, PM ₁₀ and PM _{2.5}	Use of a fabric filter system such as a baghouse or cartridge filter system.	Outlet grain loading of ≤ 0.01 grains/dry standard cubic foot or an efficiency of at least 99.9%. Air to cloth ratio should be based on manufacturers' recommendations for the solids being controlled and the fabric filter cleaning method used.
			Storage of new abrasive blast media in bags, sacks, or bulk storage in enclosed buildings, hoppers, or silos. Hoppers and silos should be equipped with a fabric filter such as a baghouse or cartridge filter system.	Outlet grain loading of ≤ 0.01 grains/dry standard cubic foot or an efficiency of at least 99.9%. Air to cloth ratio should be based on manufacturers' recommendations for the solids being controlled and the fabric filter cleaning method used.
			Storage of waste materials in closed containers or in covered piles prior to disposal offsite.	
			Opacity shall not exceed 5% from each stack or vent.	
	Outdoor Abrasive Blasting	Particulate matter including PM, PM ₁₀ and PM _{2.5}	Use of low dusting abrasives.	Coal slag, copper slag, nickel slag, steel grit, steel shot, or other media with a free silica content of less than 1.0%.

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Year	Source Type	Pollutant	Minimum Acceptable Control	Control Efficiency or Details
2015	Outdoor Abrasive Blasting	Particulate matter including PM, PM ₁₀ and PM _{2.5}	Use of shrouds is highly recommended to meet state/federal PM standards and effects review.	Shroud material shade factor should be 85% or greater.
			Storage of new abrasive blast media in bags, sacks, or bulk storage in enclosed buildings, hoppers, or silos. Outlet grain loading of ≤ 0.01 grains/dry standard cubic foot or an efficiency of at least 99.9%. Air to cloth ratio should be based on manufacturers' recommendations for the solids being controlled and the fabric filter cleaning method used. Hoppers and silos should be equipped with a fabric filter such as a baghouse or cartridge filter system.	
			Storage of waste materials in closed containers or in covered piles prior to disposal offsite.	
			Good housekeeping for spills.	
			There shall be no visible emissions crossing the property line.	
			Installation of an enclosure equipped with a ventilation and particulate matter control system may be required if the operation can reasonably be conducted within a structure with a volume of 100,000 cubic feet or less.	See Enclosed Abrasive Blasting for Minimum Acceptable Controls.