Magnesium Production Facilities Monitoring Checklist



Greenhouse Gas Reporting Program

What Must Be Monitored by Each Magnesium Production Facility that Meets the Requirements of §98.200 and §98.201?

Each magnesium production facility must monitor the following information:

process (e.g., primary, secondary, die casting).	Amount of magnesium produced or processed over the reporting period for each process type (metric tons).
Average cover gas flow rate (standard cubic feet per minute).	Composition of the cover/carrier gas during the reporting period (percent by volume).
Overall cover gas usage rate for the facility (kg of GHG/metric ton of magnesium).	For missing data, the length of time data are missing, the method used to estimate cover and carrier gas usage, and the quantity of emissions estimated for the missing data period
New melt protection technologies adopted during the reporting year that account for changes in emissions from the previous year.	Changes in facility cover gas usage rate greater than 30 percent compared to the prior year. If applicable, facilities must provide an explanation.

Each magnesium production facility must monitor the following parameters based on the gas consumption tracking method used:

Inventory Method (Eqn. T-1)				
	Inventory of each cover gas or carrier gas stored in cylinders or other containers at the beginning of the year, including residual gas amounts (heels), in kg.		Inventory of each cover gas or carrier gas stored in cylinders or other containers at the end of the year, including heels, in kg.	
	Acquisitions of each cover gas or carrier gas during the year through purchases or other transactions, in kg.		Disbursements of each cover gas or carrier gas to sources and locations outside the facility through sales or other transactions during the year, including heels in cylinders or other containers returned by the magnesium production or processing facility to the gas supplier, including heels, in kg.	
Cylinder Tracking Method (Eqn. T-2, T-3)				
	Mass of each container's contents (kg) at the beginning of the container-use period.		Mass of each container's contents (kg) at the end of the container-use period.	
Mass Flow Controller Method				
	Mass of each cover gas or carrier gas measured using a mass flow controller during the period of use.			

See also the information sheet for Magnesium Production at https://www.epa.gov/ghgreporting/subpart-t-information-sheet

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