

Ceramics Manufacturing

Subpart ZZ, Greenhouse Gas Reporting Program



What Must Be Monitored?

All ceramics manufacturing facilities:

- Total number of ceramics process units.
- Total number of ceramics process units that operated during the reporting year.

For each ceramics process unit (kiln, dryer, oven):

- Monthly amount of each carbonate (CO_3^{2-})-based raw material charged to the ceramics process unit (tons if using a Continuous Emission Monitoring Systems (CEMS); tons and metric tons if not using a CEMS).
- Annual quantity of each type of ceramics product manufactured (tons).
- Monthly ceramics production rate (tons if using a CEMS; metric tons if not using a CEMS).
- Annual production capacity (tons).
- Number of annual operating hours (hours).

If NOT using a CEMS:

For each CO_3^{2-} -based raw material (including clay) charged to each ceramics process unit:

- Annual average decimal mass fraction of each CO_3^{2-} -based mineral in each CO_3^{2-} -based raw material (supplier-provided, measured, or default value) (wt-fraction).
- Decimal fraction of calcination achieved for each CO_3^{2-} -based mineral in each CO_3^{2-} -based raw material (measured or default value) (wt-fraction).

If using a CEMS, also follow the monitoring requirements under 40 CFR Subpart C for the Tier 4 Calculation Methodology.



For More Information

For additional information and resources on Subpart ZZ, please visit the [Subpart ZZ webpage](#).

This monitoring checklist is provided solely for informational purposes. It does not replace the need to read and comply with the regulatory text contained in the rule. Rather, it is intended to help reporting facilities and suppliers understand key provisions of the GHGRP. It does not provide legal advice; have a legally binding effect; or expressly or implicitly create, expand, or limit any legal rights, obligations, responsibilities, expectations, or benefits with regard to any person or entity.