

Calcium Carbide Production

Subpart XX, Greenhouse Gas Reporting Program



What Must Be Monitored?

All calcium carbide (CaC₂) production facilities:

- Annual facility CaC₂ production capacity (tons).
- Annual facility production of CaC₂ (tons).
- Total number of CaC₂ process units at facility used for production of CaC₂.
- Annual facility consumption of petroleum coke (tons).
- Each end use of any CaC₂ produced and sent off site.

CaC₂ production facilities that produce acetylene on-site:

- Annual production of acetylene (C₂H₂) at the facility (tons).
- Annual quantity of CaC₂ used for the production of C₂H₂ at the facility (tons).
- Each end use of any C₂H₂ produced on-site.

Each CaC₂ process unit:

- Monthly CaC₂ process unit production quantity (tons).
- Number of CaC₂ process unit operating hours each month (hours).
- Number of CaC₂ process unit operating hours in a calendar year (hours).

If NOT using a continuous emission monitoring system (CEMS):

For each reducing agent:

- Monthly mass of reducing agent fed, charged, or otherwise introduced into the CaC₂ process unit (tons).
- C content in reducing agent (wt-fraction).

For each carbon (C) electrode:

- Monthly mass of C electrode consumed in the CaC₂ process unit (tons).
- C content of the C electrode (wt-fraction).

For each alloy product:

- Monthly mass of alloy product tapped from the CaC₂ process unit (tons).
- C content in alloy product (wt-fraction).

For each non-product outgoing material:

- Monthly mass of non-product outgoing material removed from the CaC₂ unit (tons).
- C content in non-product outgoing material (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 XX, please visit the [Subpart XX 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.