

Silicon Carbide Production Monitoring Checklist



Final Rule: Mandatory Reporting of Greenhouse Gases

What Must Be Monitored for Each Silicon Carbide Production Facility?

If using a CEMS:

In addition to the monitoring requirements under 40 CFR subpart C for the Tier 4 Calculation Methodology, measure these parameters for each facility...

- Annual consumption of petroleum coke (tons)

If NOT using a CEMS, measure these parameters...

For determining the monthly facility-specific emission factor:

- Carbon content for the petroleum coke consumed each month either from supplier data or as measured by the methods specified in subpart BB (percent by weight)
- If using supplier data, the annual QA/QC analysis of the petroleum coke using methods specified in subpart BB (percent by weight)

For calculating annual CO₂ and CH₄ process emissions for each facility:

- Monthly mass of petroleum coke consumed (tons)

All silicon carbide facilities measure these parameters...

- Annual production of silicon carbide (tons)
- Annual production capacity of silicon carbide (tons)
- Annual operating hours

See also the information sheet for Silicon Carbide Production (EPA-430-F-09-040R) at: www.epa.gov/ghgreporting/documents/pdf/infosheets/SiliconCarbide.pdf.