

Ferroalloy Production Monitoring Checklist

United States
Environmental Protection
Agency

Final Rule: Mandatory Reporting of Greenhouse Gases

What Must Be Monitored for Each Electric Arc Furnace (EAF)?

If NOT using a CEMS, measure these additional parameters on a monthly basis (unless otherwise noted)...

For calculating carbon dioxide (CO₂) process emissions from each furnace:

- | | |
|--|---|
| <input type="checkbox"/> Mass of each reducing agent fed, charged, or otherwise introduced into the EAF (tons) | <input type="checkbox"/> Mass of each flux material fed, charged, or otherwise introduced into the EAF (tons) |
| <input type="checkbox"/> Carbon content in each reducing agent (percent by weight) | <input type="checkbox"/> Carbon content in each flux material (percent by weight) |
| <input type="checkbox"/> Mass of each carbon electrode consumed in the EAF (tons) | <input type="checkbox"/> Mass of each alloy product tapped from EAF (tons) |
| <input type="checkbox"/> Carbon content in each carbon electrode (percent by weight) | <input type="checkbox"/> Carbon content in each alloy product (percent by weight) |
| <input type="checkbox"/> Mass of each ore charged to the EAF (tons) | <input type="checkbox"/> Mass of each non-product outgoing material removed from EAF (tons) |
| <input type="checkbox"/> Carbon content in each ore (percent by weight) | <input type="checkbox"/> Carbon content in each non-product outgoing material (percent by weight) |
| <input type="checkbox"/> Monthly production quantity for each ferroalloy product (tons) for each EAF | <input type="checkbox"/> Monthly and annual operating hours for each EAF |

For calculating CH₄ process emissions from each furnace:

- Annual mass of each alloy product listed in Table K-1 produced in the EAF (tons)

If using a CEMS:

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

- | | |
|--|--|
| <input type="checkbox"/> Monthly production quantity for each ferroalloy product (tons) for each EAF | <input type="checkbox"/> Monthly and annual operating hours for each EAF |
|--|--|

See also the information sheet for Ferroalloy Production (EPA-430-F-09-034R) at:
www.epa.gov/ghgreporting/documents/pdf/infosheets/ferroalloyproduction.pdf.

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