



PYROFLUX CW-1, CW-2, AND CW-5

FURNACE WALL CLEANING FLUXES

Pyroflux CW series fluxes are blends of pure mineral salts in powder form.

These flux products combine inert, exothermic, and surface modifying compounds which promote loosening of oxide and corundum buildup from all types of alumina and alumino-silicate refractories, common to aluminium melting and holding furnaces.

Pyrotek has designed these fluxes to be aggressive on oxide buildup, yet suitable for emissions requirements in casthouses and foundries.

BENEFITS

- Reduces dross buildup on furnace walls and maintains the original furnace capacity
- Prevents corundum buildup
- Generates ash-like dross that facilitates mechanical scraping
- Can be applied using a spray gun
- 1–2 kilograms (2.2–4.4 pounds) of flux will clean one square meter of wall surface

AVAILABILITY

25 kg (55 lb) bags

HEALTH AND SAFETY

Prior to use, refer to the product safety data sheet for proper handling and required personal protective equipment.

USE INSTRUCTIONS

Pyrotek wall cleaning fluxes should be applied during regular furnace maintenance cycles. Recommended application frequency for wall-cleaning fluxes can be once per week, or twice per month, depending on process needs and furnace condition(s).



Please note: regular use of Pyrotek granulated fluxes or Promag® in your furnace(s) – especially via injection – will help to keep furnaces cleaner and can reduce frequency of wall-cleaning treatments.

The following application amounts are typical. The amount of flux required can depend on the application tool, the furnace condition, and other parameters.

1. Drain the furnace to expose all the furnace wall dross. For best performance, it is recommended that the refractory surface be heated to 750–780°C (1382–1436°F).
2. Apply 1–2 kilograms (2.2–4.4 pounds) of flux per square meter to the refractory surfaces being cleaned. It is recommended that the flux be applied with a spray gun to provide a continuous layer.
3. Allow the flux to react with the dross for five minutes.
4. Scrape the furnace walls until an incandescent, ash-like dross separates itself from the liquid metal.
5. If the furnace walls are heavily coated with dross, repeat steps 2–4.

Product	Pyroflux CW-1	Pyroflux CW-1E	Pyroflux CW-2	Pyroflux CW-5
Description	Pyrotek's original wall-cleaning flux for loosening oxide buildup on hard furnace refractories, including a eutectic mix of base components.	Similar to Pyrotek's original CW-1 recipe with higher exothermic content for more aggressive cleaning action or for lower application furnaces.	Sodium free wall-cleaning flux containing different varieties of exothermic components to give slightly different reaction behavior than Pyroflux CW-5.	Sodium-free wall cleaning flux with single but effective exothermic component for heat generation at area of interaction.
Suggested Application Temperature	≥750°C (1382°F)	≥720°C (1328°F)	≥720°C (1328°F)	≥750°C (1382°F)
Inerts/Eutectics	Sodium Chloride (NaCl) Potassium Chloride (KCl)	Sodium Chloride (NaCl) Potassium Chloride (KCl)	Potassium Chloride (KCl)	Potassium Chloride (KCl)
Exothermic Content (%)	7%	17%	7%	7%
Fluorine Content (%)	15%	14%	23%	23%

