



PYROFLUX 2, 4, 5, 6, 6535

POWDER COVERING AND REFINING FLUX BLENDS

Pyroflux 2, 4, 5, 6 and 6535 are light grey coloured powder blends of potassium chloride (KCl) and anhydrous magnesium chloride (MgCl₂) used as covering and refining fluxes for in-furnace metal treatments of light metal alloys.

When used on the surface of metal, these Pyroflux blends melt to form a liquid salt layer that prevent oxide generation and hydrogen pick-up. When injected or submerged, this flux works to effectively remove inclusions and alkali metals from the body of the melt.

BENEFITS

- Low application rates per metric tonne of aluminium
- Reduces melt loss to dross
- Removes alkali metals and non-metallic inclusions
- Replaces chlorine gas injection
- Replaces sodium chloride covering fluxes
- Sodium, calcium and fluorine free

USE INSTRUCTIONS

The exact flux application rate depends on process specifications. However, it is recommended to add approximately 0.5–2.0 kilograms (2.2–4.4 pounds) of Pyroflux for each metric tonne of aluminium.

Pyroflux can either be added to the clean surface of the melt and stirred in, or to the furnace heel before charging.

AVAILABILITY

- Standard: 5kg (11lb) bags, sealed and packaged in cardboard or wooden boxes
- By Request: 0.25-25kg (0.5-55lb) bags, sealed and packaged in cardboard or wooden boxes
- 1000 kilogram (2200 pound) pallets

SIEVE GRADE

- Maximum 5% retained on 1 millimetre (0.04 inch) sieve
- Minimum 50% passing 315 micron (12.4 mil) sieve

STORAGE

- Store in the original packaging
- Keep the packages sealed, and in a cool dry place
- In proper storage conditions the product shelf life is approximately one year

HEALTH AND SAFETY

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

PHYSICAL PROPERTIES

Ingredient	Pyroflux 2	Pyroflux 4	Pyroflux 5	Pyroflux 6	Pyroflux 6535
MgCl ₂ ±1%	20%	40%	50%	60%	65%
KCl ±1%	80%	60%	50%	40%	35%
MgO	0.5% maximum				
Na	0.6% maximum				
Ca	0.015% maximum				
Total Moisture	Typical 1.0% in standard packaging; 1.0-2.5% in non-standard packaging; includes chemically bound water.				

