

PIC[®] Granular Drossing Fluxes (NK3)

PRODUCT DESCRIPTION:

This kind of flux is a granulated mild exothermic fluxes used in reverberatory & all other type of furnaces. Its a mixture of sodium chloride and potassium chloride and heat-generating chloride compound. These materials produce a low melting point that effectively separate aluminium oxides from liquid metal.

APPLICATION METHOD:

1. After charging, spread the flux evenly over the surface of the melt.
2. Stir the flux into the melt using a proper mixing tool. Stir the dross without disturbing the liquid metal to avoid reintroducing metal to the dross.
3. Let it stand for 3-4 minutes
4. When the dross is light and dry, carefully remove it from the furnace using a coated skimming tool. Take care to not disturb the melt.

BENEFIT:

1. Removes non-metallic inclusions, aluminium oxide as well.
2. Less dust than powder fluxes when application to meet the environment requirement
3. Get dry and powdery dross and reduce metal loss

ADDITION RATE:

It depends on the quality of the charge. Recommendation rate is 0.5-1.5kg. per ton.

PACKAGE:

PIC[®]-NK3 is in granular form. Packed in 25kg HDPE bags.

STORAGE & SHELF LIFE:

PIC[®]-NK3 has a shelf life of 24 months if stored in normal temperature and closed shaded dry area in undamaged original packing.

Care should be taken to prevent moisture absorption during storage of PIC[®]-NK3 especially after Bags have been opened.



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PIC[®] DEGASSING TABLETS

PRODUCT DESCRIPTION:

Even under the best melting conditions, it is often impossible to prevent hydrogen gas from entering the melt which finally gives rise to porosity in the cast products. It is therefore necessary to remove as much of hydrogen from the melt as possible prior to pouring. It is a tablet form degasser applied for removing the dissolved hydrogen by diffusion process.

FUNCTION:

It acts as a degassing flux. In the molten aluminum it performs physical and chemical refining on the molten aluminum. It has the functions of strong degassing and refining.

APPLICATION METHOD:

- Tablets can be put into the melt by bell which coat with protect coating on the bell.
- To protect the surface of the melt by covering fluxes before degassing
- The dosage temperature of the melt is 680-740°C
- Let the tablets acting for 10-15minutes, The best effects with melt tumbling
- The more depth of fluxes in, the more dosage. It acts more fully.
- Tips: Do not put the fluxes to the bottom of the furnace. The best height is 10cm above the bottom. To avoid the melt acting more strong or un totally.

ADDITION RATE:

0.3–0.5%

PACKAGE:

Tablets are available in 200 gm. Packed into carton boxes.

STORAGE & SHELF LIFE:

It has a shelf life of 12 months if stored in normal temperature and closed shaded dry area in undamaged original packing.



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PIC[®] Furnace Wall Cleaning Flux

PRODUCT DESCRIPTION & FUNCTION:

During use the lining of the aluminium melting furnace frequently becomes coated with a considerable build-up of dross-type material on the furnace walls. Subsequently the volume of furnace hearth gradually decreases.

This Flux is a strongly exothermic product, which can be used for the cleaning of furnace walls. This is a flux that is used mainly for application to the walls and roof of reverberatory, Crucible & all types of melting / holding furnaces. It can also be used for the cleaning of large transfer ladles if these can be independently heated.

ADVANTAGES:

- It is a strongly exothermic product, which attacks and stripes oxide film.
- With its strong heat generation and striping action causes entrapped aluminium to melt and run down to the furnace hearth.
- With its strong exothermic and striping action effects the loosing of the residues on the walls and can be removed easily by scraping tools.
- It can be used when changing the alloy to prevent contamination of bath by residues from the preceding charge.

APPLICATION METHOD:

- The empty furnace is heated until the lining glows red (850 - 900 °C).
- Flux is sprayed evenly on the walls or build-up of dross
- Reheat furnace for 15 minutes, then scrape walls clean.
- Tap the recovered metal.
- Furnaces should be treated weekly with PIC[®] Furnace wall cleaning Flux to prevent residues.
- Required material 8-12 kg/m²

PACKAGE:

It is supplied in 25 kg HDPE Bags.

STORAGE & SHELF LIFE:

It has a shelf life of 12 months if stored in normal temperature and closed shaded dry area in undamaged original packing.

Care should be taken to prevent moisture absorption during storage.



PIC[®] RECOVERY FLUX

PRODUCT DESCRIPTION:

Even where a dross has been treated with flux in the furnace, there is still some metal retained. PIC[®] Recovery Flux is specifically designed for treating hot dross to recover the entrapped aluminium as soon as they are skimmed.

FUNCTION:

Due to the insufficient separation of the metal from the dross, PIC[®] Recovery Flux with its exothermic action saves each kilo of metal.

It suits all types of dross from different alloys.

It has a simple and easy way in application.

ADVANTAGES:

- This flux has an excellent effect on hot skim. help extract maximum aluminium from hot dross,
- It's strongly exothermic which causes entrapped aluminium to melt and run down easily
- produces dry powdery dross. promote high metal recovery,
- It's a cost saving flux with low addition rate & quickly reaction.

APPLICATION METHOD:

- It is applied outside of the furnace. Better do it with the dross machine.
- No machine then throw the fluxes on the hot dross. Stir-fry the dross with flux. There will be exothermic action and aluminium melt will flow down.
- With Machine: Added alternatively into cart in sandwich fashion. then turn on the machine. The melt will flow down.

ADDITION RATE:

0.2-0.5% weight of the dross. According to the dross content and the situation on site.

PACKAGE:

It is supplied in 25kg HDPE Bags.

STORAGE & SHELF LIFE:

A shelf life of 12 months if stored in normal temperature and closed shaded dry area in undamaged original packing.

Care should be taken to prevent moisture absorption during storage especially after bags are open.



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