TECHNICAL DATA SHEET: FERFLUX 04

PRODUCT DESCRIPTION

FERFLUX 04 are a range of special purpose fluxes for reducing the Phosphorus content during the melting of various steels in Electric Arc Furnaces. Presence of high phosphorous from the charge materials, leads to cold shortness which results in poor mechanical properties. **FERFLUX 04** when added forms highly basic and fluid slag which is capable of phosphorous removal. The slag also neutralizes other acidic byproducts of the slag metal reaction and minimizes the erosion of the refractory lining. Presently the following grades of **FERFLUX 04** are available in our range-

- **FERFLUX 04 A –** Less reactive high addition rate product.
- **FERFLUX 04 B –** Highly reactive low addition rate product.

HOW TO USE

This flux is mainly an electric furnace additive, but can be used for induction furnace application, as ladle additive. The required quantity of **FERFLUX 04** is added at the bottom of the ladle and metal is tapped on to it. Since the temperature of the molten metal falls rapidly after the addition of this product, it is advisable to use this product with high metal superheat. The better alternative would be to carry out a ladle treatment, repour into an Induction furnace, superheat and then retap the metal. The normal addition rate varies between 0.5 to 1.0% of the charge weight. The correct addition will depend upon the grade of **FERFLUX 04** selected, the type of the charge and the final phosphorous percentage required.

INDICATIVE SPECIFICATIONS

FERFLUX 04 are reddish coloured dry free flowing powders passing though -80 mesh and containing less than 1% moisture. The product has got a shelf life of 6 months.

PACKING DETAILS

FERFLUX 04 is supplied in 20kg HDPE bags. The product should be stored in a cool and dry place

MATERIAL SAFETY DATA SHEET: FERFLUX 04

1.   CHEMICAL IDENTITY

Chemical Name   : Metallurgical Flux
Chemical Classification   : Mixture of salts and minerals.
Trade Name   : FERFLUX 04 A, FERFLUX 04 B.

2.   PHYSICAL AND CHEMICAL DATA

Appearance   : Reddish Brown colour free flowing powder
Physical state   : Solid
Odor   : Odorless

3.   FIRE & EXPLOSION HAZARD DATA

Flammability   : No
Auto Ignition Temperature   : None
Corrosive Material   : No
Explosive Material   : No

4.   REACTIVITY DATA

Chemical Stability   : Stable
Incompatibility with   : Non hygroscopic
Other materials
Hazardous reaction product   : None

5.   HEALTH HAZARD DATA

Route of Entry   : Skin
Effects of Exposure   : Constant exposure and inhalation cause mild irritation to the nose, eyes and skin. Wash the affected area with lot of water and consult a doctor.

6.   PREVENTIVE MEASURES

Personal protective equipment   : Avoid direct contact with hands, use gloves wherever possible.

Handling & Storage precautions   : Keep in a cool and dry place.

7.   EMERGENCY & FIRST AID MEASURES

Fire   : Use water.
Spillage   : Sweep away the spilled material.

8.   HANDLING & DISPOSAL

Empty Bags   : Never use empty bags for storing food stuffs or other materials meant for human and a nimal consumption. Empty bags may be sold as scrap or to HDPE recyclers approved by the State Pollution Control Boards.

9.   MANUFACTURER / SUPPLIER DATA

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10.   DATE OF INFORMATION   : 01.01.2008.

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