



TECHNICAL DATA SHEET: **FERFLUX 03**

PRODUCT DESCRIPTION

FERFLUX 03 A is a general purpose fluxing additive for use during the melting of cast irons in Cupolas. The product is a supplementary flux which increases the reactivity of the limestone in acid lined cupolas and reduces the melting point of the lime stone thereby increasing its chemical reactivity and improving the level of active fluid slag. The ash in the coke also gets separated and fluidized more easily leading to better combustion of coke, increasing the temperature and hence increasing the melting rate. The above effect leads to intimate contact between coke and oxygen from the blast. **FERFLUX 03 A** when added reduces silicon and manganese losses due to oxidation and increases carbon pick up since higher carbon metal has better fluidity and excellent casting characteristics. The enhanced melting efficiency often permits replacement of pig iron in metallic charge by cast iron scrap upto 15%. On the whole, coke and limestone consumption can be reduced to 10% in the normal charge without affecting metal quality, which inturn saves melting costs.

HOW TO USE

The normal addition rate of this product is between 0.4 to 0.5% of the metallics. This has to be uniformly distributed over the split charges loaded into the cupola. 4 to 5kgs of this product should also be used along with limestone in the coke bed at the start of the melting campaign. After standardization for a week the metallic charge composition can be altered i.e., pig iron can be replaced by 10% steel scrap or 15% cast iron scrap. However the maximum efficiency can be obtained by controlling the parameters like metal temperatures, basicity of slag and fluidity and carbon and Sulphur levels.

INDICATIVE SPECIFICATIONS

FERFLUX 03 A is a grey coloured tablet of each 0.5kg. The product contains maximum moisture of 0.5%. The product has got a shelf life of 6 months.

PACKING DETAILS

FERFLUX 03 tablets are supplied in 20 kg cardboard boxes. The product should be stored in a cool and dry place



MATERIAL SAFETY DATA SHEET: **FERFLUX 03**

1. **CHEMICAL IDENTITY**
 Chemical Name : Metallurgical Flux
 Chemical Classification : Mixture of salts and minerals
 Trade Name : FERFLUX03A.
2. **PHYSICAL AND CHEMICAL DATA**
 Appearance : Grey coloured tablet
 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 Other materials : Data not available
 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 Cardboard box es : Never use empty boxes for storing food stuffs or other materials meant for human and animal consumption. Card Board Boxes should be sold as scrap.
9. **MANUFACTURER / SUPPLIER DATA:**
 Name : Quality Technologies Private Limited
 Address : No.34, Rd. No.1, IDA Mallapur, Nacharam, Hyderabad – 500 076
 Telephone : 040 27153888, 27155828
 Fax : 040 27152567
 e-mail : info@qtecindia.com
10. **DATE OF INFORMATION** : 01.01.2008.

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