

# QUALITY TECHNOLOGIES PRIVATE LIMITED

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## TECHNICAL DATA SHEET: **FERFLUX 05**

### PRODUCT DESCRIPTION

**FERFLUX 05 A** is a special purpose flux for reducing the Sulphur content during the melting of various steels and some cast irons. Presence of high Sulphur from the charge materials, leads to hot shortness which results in poor mechanical properties. **FERFLUX 05 A** is an efficient Sulphur remover, it enables the Sulphur containing slag to float on to the top of the molten metal, such that it can be easily skimmed off. **FERFLUX 05 A** produces close grain structure, and enhances machinability.

### HOW TO USE

This flux is mainly an electric furnace additive, but can also be used for induction furnace application, as ladle additive. The required quantity of **FERFLUX 05 A** 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. Care should be taken to ensure that no slag get into the ladle, because slag being acidic in nature reacts with **FERFLUX 05** and causes Sulphur to revert back into molten metal. The normal addition rate varies between 0.5 to 2.0% of the molten metal. The correct addition will depend upon the type of charge and the final Sulphur percentage required.

### INDICATIVE SPECIFICATIONS

**FERFLUX 05** are creamish white coloured dry free flowing powders passing through – 80 mesh and containing less than 1% moisture. The product has got a shelf life of 6 months.

### PACKING DETAILS

**FERFLUX 05** is supplied in 20kg HDPE bags. The product should be stored in a cool and dry place.

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## MATERIAL SAFETY DATA SHEET: **FERFLUX 05**

1. **IDENTIFICATION OF PRODUCT :-**  
Trade Name & Use : FERFLUX 05 A – Metallurgical Flux  
Manufacturer / Supplier : QUALITY TECHNOLOGIES PVT. LTD.  
No.34, Road No.1, IDA Mallapur, Nacharam P.O.,  
Hyderabad – 500076. PH:040-27153888, 27155828  
Fax: 040-27152567, email : [info@qtecindia.com](mailto:info@qtecindia.com)  
Website:www.qtecindia.com
2. **INFORMATION ON COMPOSITION** : Basic mixtures of Oxides and Halides
3. **HAZARDS IDENTIFICATION :-**  
Flammability : No  
Auto Ignition Temperature : None  
Corrosive Material : No  
Explosive Material : No.
4. **FIRST AID :-**  
At inhalation, ingestion and contact with skin : If suspect symptoms appear, seek medical advice.  
Eye Contact : Rinse with plenty of lukewarm water
5. **FIRE – FIGHTING MEASURES :-**  
Fire : Use water.
6. **ACCIDENTAL RELEASE MEASURES :-**  
To avoid Dust : Spillage should be collected with vacuum-cleaner.
7. **HANDLING STORAGE :-**  
Handling & Storage precautions : Keep in a cool and dry place.
8. **EXPOSURE CONTROLS / PERSONAL PROTECTION :-**  
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.  
Personal protective equipment : Avoid direct contact with hands use gloves wherever possible
9. **PHYSICAL AND CHEMICAL PROPERTIES :-**  
Appearance : Creamish White colour free flowing powder.  
Physical state : Powder  
Odor : Odorless
10. **STABILITY AND REACTIVITY:-**  
Chemical Stability : Stable  
Incompatibility with : Non hygroscopic  
Other materials  
Hazardous reaction product : None
11. **TOXICOLOGICAL INFORMATION :-**  
On product : No data available  
On Ingredients : On Fluoride ingredients are marginally toxic.
12. **ECOLOGICAL INFORMATION :-**  
On product : No data available  
On Ingredients : No data available
13. **DISPOSAL CONSIDERATIONS :-**  
Empty Bags : Never use empty bags for storing food stuffs or other materials meant for human and animal consumption. Empty bags may be sold as scrap or to HDPE recyclers approved by the State Pollution Control Boards.
14. **TRANSPORT INFORMATION :-** : Non-dangerous product for transportation by road, sea, air.
15. **REGULATORY INFORMATION :-** : No data available
16. **OTHER INFORMATION :-** : No data available

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