



TECHNICAL DATA SHEET: **ZINFLUX 01**

PRODUCT DESCRIPTION

ZINFLUX 01 are range of fluxes used for protecting, and cleansing zinc and its alloys during melting and for high recovery of zinc from drosses. The protective fluxes, **ZINFLUX 01 A, ZINFLUX 01 B AND ZINFLUX 01 C** melt at lower temperatures than the metallic charge and progressively forms a thick fluid slag on the top of molten metal which protects from oxidation. **ZINFLUX 01 A, ZINFLUX 01 B AND ZINFLUX 01 C** are graded in increasing order of reactivity. **ZINFLUX 01 D** is used for recovery and reversal of zinc from zinc dross.

HOW TO USE

ZINFLUX 01 A, ZINFLUX 01 B AND ZINFLUX 01 C are added in two stages – initially @ 0.25% of charge during early stages of melting and finally again @ 0.25% when the charges has become completely molten. Care should be taken to ensure that a protective layer is always present on the top of the molten alloy.. In the case of **ZINFLUX 01 D**, the flux is added directly on the dross between at a temperature of 455°C \pm 5. It is essential that there be no glowing spots in the dross as this may start an exothermic reaction with the flux, leading to a increasing temperature and further oxidation of Zinc. Whether in the case of alloy melting or dross recovery, the molten flux-dross-metal layer is carefully rabbled, and strained with a perforated plunger to allow the metal to trickle through and leave a powdery dross behind. The above procedure is indicative and exact addition will depend upon the quality of the charge, melting practice and type of furnace.

INDICATIVE SPECIFICATIONS

PROPERTY	RANGE			
	ZINFLUX 01 A	ZINFLUX 01 B	ZINFLUX 01 C	ZINFLUX 01 D
Appearance	Powder	Powder	Powder	Powder
Colour	White	White	White	Grey
Mesh size	-40 mesh	-40 mesh	-40 mesh	-40mesh
Moisture	0.5 % max	0.5% max	1% max	1% max
Shelf life	6 Months	6 Months	6 Months	6 Months

PACKING DETAILS

ZINFLUX 01 range of products are supplied in 30Kg Carboys. The products should be stored in a cool and dry place.



MATERIAL SAFETY DATA SHEET: **ZINFLUX 01**

1. **CHEMICAL IDENTITY**
 Chemical Name : Metallurgical Flux.
 Chemical Classification : Mixture of salts and minerals.
 Trade Name : ZINFLUX 01 A, ZINFLUX 01 B, ZINFLUX 01 C, ZINFLUX 01 D.
2. **PHYSICAL AND CHEMICAL DATA**
 Appearance : ZINFLUX 01 A, ZINFLUX 01 B & ZINFLUX 01 C are white colour powders while ZINFLUX 01 D is a grey colour powder.
 Physical state : ZINFLUX 01 A, ZINFLUX 01 B and ZINFLUX 01 C are white colour powders while ZINFLUX 01 D is a grey colour powder.
 Odor : Specific odour
3. **FIRE & EXPLOSION HAZARD DATA**
 Flammability : No
 Auto Ignition Temperature : No
 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 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
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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