

# QUALITY TECHNOLOGIES PRIVATE LIMITED

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## TECHNICAL DATA SHEET: **ALUFLUX 05**

### PRODUCT DESCRIPTION

**ALUFLUX 05 A** is a range of general purpose covering flux for melting of Aluminium alloys containing Magnesium. The flux forms a cover on the top of the molten metal and prevents its direct exposure to ambient furnace atmosphere. It prevent burning of the Magnesium present in the molten alloy as well as oxidation of the aluminium itself.

### HOW TO USE

**ALUFLUX 05** is added on the top of the charge before melting. The melting cycle is then started, as per normal practice with intermittent charging and melt down. Subsequently during the melting cycle, additional quantity should also be added depending upon the surface area exposed, quantity of metal being melted and quality of charge. While the normal addition rate of **ALUFLUX 05** is 1.0 to 1.5 % of the charge; the exact percent will depend upon all the above factors, as well as on operator's skill. When the metal is ready for tapping/casting, additional quantity of flux should be added on top of the molten metal. Do not rabble the flux with molten metal since it would lead to flaring up of the Magnesium in the Aluminum alloy. **ALUFLUX 05 A** is highly hygroscopic in nature and hence the carboy containing material should always be closed after use.

### **Indicative Specifications**

PROPERTY	RANGE
PRODUCT NAME	<b>ALUFLUX 05 A</b>
Colour	White
Physical Appearance	Powder
Moisture	0.5% max
Melting point	650°C $\pm$ 20°C
Mesh Size	-40 Mesh
Shelf Life	3 Months

### PACKING DETAILS

**ALUFLUX 05** is supplied in 30kg Carboys. The product should be stored in a cool and dry place.

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

<b>1. IDENTIFICATION OF PRODUCT :-</b>	
Trade Name & Use	: ALUFLUX 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 : <a href="mailto:info@qtecindia.com">info@qtecindia.com</a> Website:www.qtecindia.com
<b>2. INFORMATION ON COMPOSITION</b>	: Mixture of Halide salts
<b>3. HAZARDS IDENTIFICATION :-</b>	
Flammability	: No
Auto Ignition Temperature	: None
Corrosive Material	: Partly corrosive upon prolonged exposure
Explosive Material	: No
<b>4. FIRST AID :-</b>	
At inhalation, ingestion and contact with skin	: Rinse with plenty of water and if suspect symptoms persist seek
Eye Contact	Medical advice.
<b>5. FIRE – FIGHTING MEASURES :-</b>	
Fire	: Use water.
<b>6. ACCIDENTAL RELEASE MEASURES :-</b>	: Spillage should be swept away and washed away with water wherever required.
<b>7. HANDLING STORAGE :-</b>	
Handling & Storage precautions	: Keep in a cool and dry place.
<b>8. EXPOSURE CONTROLS / PERSONAL PROTECTION :-</b>	
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.
<b>9. PHYSICAL AND CHEMICAL PROPERTIES :-</b>	
Appearance	: White colour free flowing powders.
Physical state	: powder
Odor	: Semi Pungent Odour
<b>10. STABILITY AND REACTIVITY:-</b>	
Chemical Stability	: Stable
Incompatibility with	: Hygroscopic and dissolves in water.
Other materials	
Hazardous reaction product	: None
<b>11. TOXICOLOGICAL INFORMATION :-</b>	
On product	: No data available
On Ingredients	: Contains Salts which are mildly toxic.
<b>12. ECOLOGICAL INFORMATION :-</b>	
On product	: No data available
On Ingredients	: No data available
<b>13. DISPOSAL CONSIDERATIONS :-</b>	
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.
<b>14. TRANSPORT INFORMATION :-</b>	: Non-dangerous product for transportation by road, sea, air.
<b>15. REGULATORY INFORMATION :-</b>	: No data available
<b>16. OTHER INFORMATION :-</b>	: No data available

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