

QUALITY TECHNOLOGIES PRIVATE LIMITED

TECHNICAL DATA SHEET: **ALUFLUX 09**

PRODUCT DESCRIPTION

ALUFLUX 09 are general purpose nucleating compounds for Aluminium and its alloys. Normally, Aluminium and its alloys solidify with coarse columnar grains which possess problems like poor feeding characteristics, cracking during metal working ...etc. Since coarse grain structure lowers the mechanical properties of casting, it is necessary to have a fine grain structure which increases hardness of the casting. **ALUFLUX 09** contains salts of Titanium and Boron that promotes nucleation of the Aluminium Alloy. The melt must be treated with **ALUFLUX 09** tablet, which acts as a grain refiner and produces fine grain structure. Presently the following grades of **ALUFLUX 09** are available in our range -

- **ALUFLUX 09 A** - For applications that require electrical conductivity as well.
- **ALUFLUX 09 B** - Titanium based grain refiner for extrusions.

HOW TO USE

The degassing and nucleating operation has to be carried out when the entire metal is super heated and ready for final treatment before tapping. The tablet has to be plunged into the molten metal when it ready for tapping, by means of a perforated plunger and held in place till the tablet is totally consumed. The normal addition rate of this tablet is 0.1% to 0.2% of the molten metal. Choose the largest tablet size appropriate to your melt size for maximum efficiency.

INDICATIVE SPECIFICATIONS

PROPERTY	RANGE	
PRODUCT	ALUFLUX 09 A	ALUFLUX 09 B
Colour	Pink Colour	Pink Colour
Melting point	187-190°C	187-190°C
Shelf Life	6 Months	6 Months

PACKING DETAILS

ALUFLUX 09 tablets is available in a size of 50gm, 100gm and 500gm tablet. As the product sublimates in air, tablets are wrapped in an aluminum foil, and finally placed in 20kg Card Board Boxes.

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MATERIAL SAFETY DATA SHEET: **ALUFLUX 09**

1. IDENTIFICATION OF PRODUCT :-	
Trade Name & Use	: ALUFLUX 09 A , ALUFLUX 09 B- Tableted Grain Refining 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 Website:www.qtecindia.com
2. INFORMATION ON COMPOSITION	: Mixture of Halide salts
3. HAZARDS IDENTIFICATION :-	
Flammability	: No
Auto Ignition Temperature	: None
Corrosive Material	: Partly corrosive upon prolonged exposure
Explosive Material	: No
4. FIRST AID :-	
At inhalation, ingestion and contact with skin	: Rinse with plenty of water and if suspect symptoms persist seek
Eye Contact	Medical advice.
5. FIRE – FIGHTING MEASURES :-	
Fire	: Use water.
6. ACCIDENTAL RELEASE MEASURES :-	
	: Spillage should be swept away and washed away with water wherever required.
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	: Pink colour tablets.
Physical state	: Tablet
Odor	: Semi Pungent Odour
10. STABILITY AND REACTIVITY:-	
Chemical Stability	: Stable but sublimes/evaporates over a period of 4 – 5 Months
Incompatibility with	: No data available.
Other materials	
Hazardous reaction product	: Yes
11. TOXICOLOGICAL INFORMATION :-	
On product	: No data available
On Ingredients	: Contains Salts which are toxic.
12. ECOLOGICAL INFORMATION :-	
On product	: No data available
On Ingredients	: No data available
13. DISPOSAL CONSIDERATIONS :-	
Empty cardboard boxes	: Never use empty cardboard boxes for storing food stuffs or other materials meant for human and animal consumption. Empty boxes may be sold as scrap.
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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