



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.

Low cost versions of the above products that are available on request are designated as **ALUFLUX L9 A** and **ALUFLUX L9 B**.

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



MATERIAL SAFETY DATA SHEET: **ALUFLUX 09**

1. **CHEMICAL IDENTITY**
 Chemical Name : Metallurgical Flux.
 Chemical Classification : Mixture of salts and minerals.
 Trade Name : ALUFLUX 09 A, ALUFLUX 09 B, ALUFLUX L9 A and ALUFLUX L9 B
2. **PHYSICAL AND CHEMICAL DATA**
 Appearance : Pink coloured tablets.
 Physical state : Solid
 Odor : Specific Odour
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 : Hygroscopic and dissolves in alcohol and sublimes in air.
 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 wherever possible. Use gloves wherever possible.
 Handling & Storage precautions : Keep in a cool and dry place.
7. **EMERGENCY & FIRST AID MEASURES**
 Fire : Use water / CO₂ / Foam Extinguisher.
 Spillage : Sweep away the spilled material.
8. **HANDLING & DISPOSAL**
 Empty Cardboard Boxes / Foils : Never use empty foil for storing food stuffs or other materials meant for human and animal consumption. Used foils and Card board boxes may 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 27151567
 e-mail : info@qtecindia.com
10. **DATE OF INFORMATION** : 01.01.2008.

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