

# QUALITY TECHNOLOGIES PRIVATE LIMITED

## TECHNICAL DATA SHEET: **ALUFLUX 08**

### PRODUCT DESCRIPTION

**ALUFLUX 08** is a general purpose tablet additive for degassing all varieties of Aluminium alloys. Since the presence of hydrogen gas in the Aluminium melt gives rise to pin hole porosity in the cast product, it is therefore necessary to remove hydrogen from the melt as possible prior to pouring. This tablet mainly serves for the purpose of removing hydrogen gas by flushing with chlorine generating additives into the melt. This tablet reacts with molten Aluminium, generating nascent Aluminium Chloride gas, which in turn generates micro bubbles of chlorine, into which the dissolved hydrogen migrates due to partial pressures phenomena and finally comes out to the top of the molten metal. Presently the following grades of **ALUFLUX 08** are available in our range, depending upon the decreasing order of reaction -

- **ALUFLUX 08 A** - High efficiency degasser and generates fumes.
- **ALUFLUX 08 B** - Environment friendly and generates low fumes.
- **ALUFLUX 08 C** - Low gas generating tablets.

### HOW TO USE

The degassing 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. It is advisable not to increase the metal temperature any further after degassing, since Hydrogen dissolution increases with increasing metal temperature. During the treatment operation a small quantity of smoke is generated due to generation of gasses. 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 08 A	ALUFLUX 08 B	ALUFLUX 08 C
Colour	Blue Colour	Green colour	Black colour
Melting point	187-190 <sup>0</sup> C	187-190 <sup>0</sup> C	187-190 <sup>0</sup> C
Shelf Life	6 Months	6 Months	6 Months

### PACKING DETAILS

**ALUFLUX 08** range are available in tablet size of 50gm, 100gm and 500gm. As the product sublimes 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 08**

- 1. IDENTIFICATION OF PRODUCT :-**  
Trade Name & Use : ALUFLUX 08 A , ALUFLUX 08 B , ALUFLUX 08 C - Tableted Degassing 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** : 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 : ALUFLUX 08 A is Blue, ALUFLUX 08 B is Green and ALUFLUX 08 C is  
Black in colour.  
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 : Incompatible with aluminium above 70° C ambient temp.  
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.  
Temperature should be less than 50°C.
- 15. REGULATORY INFORMATION :-** : No data available
- 16. OTHER INFORMATION :-** : No data available

**DISCLAIMER:** This information is furnished without warranty of any kind. It is based on our knowledge and is believed to be reliable. This information does not contain any assurance of technical properties or suitability for a specific application or results. We reserve the right to change specs. without prior notice as a natural consequence of our continuous efforts in product development and improvement.