

QUALITY TECHNOLOGIES PRIVATE LIMITED

TECHNICAL DATA SHEET: **ALUFLUX 02**

PRODUCT DESCRIPTION

ALUFLUX 02 are range of fluxes for modifying the micro structure of Aluminum alloys containing Silicon. Normally when Al-Si alloys solidify, the silicon gets crystallized in the form of needles, and structure is termed acicular. This reduces mechanical properties of the alloy. When **ALUFLUX 02** is added, it modifies the structure by improving the mechanical properties. Presently the following grades of **ALUFLUX 02** are available in our range -

- **ALUFLUX 02 A** - Recommended for treatment temperatures less than 730°C.
- **ALUFLUX 02 B** - Recommended for temperatures between 730°C-760°C.
- **ALUFLUX 02 C** - Recommended for temperatures above 760°C.

HOW TO USE

Modification of the molten Aluminium alloy is normally the last operation after melting, degassing and grain refinement. Depending upon the pouring temperature, the correct grade of **ALUFLUX 02** is selected, and added at the top of the molten alloy. After 2-3 minutes, the flux becomes molten and reddish in colour and it has to be rabbled/mixed with the molten metal. During this stage, the Sodium in the flux gets alloyed into the metal and modifies the shape of the primary Silicon from needle like to cuboids. Recommended addition rate is 3% for **ALUFLUX 02 A** 1.5% for **ALUFLUX 02 B** and 2% for **ALUFLUX 02 C**, by the weight of the molten metal.

INDICATIVE SPECIFICATIONS

PROPERTY	RANGE		
PRODUCT NAME	ALUFLUX 02 A	ALUFLUX 02 B	ALUFLUX 02 C
Colour	Blue	Sky blue	White
Moisture	0.5% max.	0.5% max.	0.5% max
Melting point	Less than 730°C	730°C-760°C.	Above 760°C.
Mesh Size	-40 Mesh	-40 Mesh	-40 Mesh
Shelf life	6 Months	6 Months	6 Months

PACKING DETAILS

ALUFLUX 02 is supplied in 20kg HDPE bags. The products should be stored in a cool and dry place.

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MATERIAL SAFETY DATA SHEET: ALUFLUX 02

1. PRODUCT IDENTIFICATION

Trade Name & Use : ALUFLUX 02 A, ALUFLUX 02 B ,ALUFLUX 02 C– 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 : 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
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 : Not Flammable

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 : Blue & White free flowing powders
Physical state : Powder
Odour : Semi Pungent Odour

10. STABILITY AND REACTIVITY :-

Chemical Stability : Stable
Incompatibility with : Partly Hygroscopic and Soluble in water
Other materials
Hazardous reaction product : None

11. TOXICOLOGICAL INFORMATION :-

On product : No data available
On Ingredients : Contains Salts which are mildly toxic.

12. ECOLOGICAL INFORMATION :-

On product : No data available
On Ingredients : No data available

13. DISPOSAL CONSIDERATIONS :-

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.

14. TRANSPORT INFORMATION :-

: Non-dangerous product for transportation by road, sea, air.

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.