



## PRODUCT DATA SHEET

### **CERAFLUX- 40**

(Sodium, lithium, and calcium removal flux for aluminium and aluminium alloys)

#### **Introduction:**

**Ceraflux-40** is a Powder flux suitable for all types of Aluminium alloys. It is a composite of magnesium and potassium salts. It reacts quickly to efficiently remove Na, Li, and Ca from molten Al and Al-Mg alloys.

#### **Advantages -**

- Sodium and Fluoride-free
- **Ceraflux-40** has a low melting point for rapid dissolution

#### **Application**

##### **1. To remove sodium from the refractory linings of holding furnaces.**

Thoroughly remove any dross from the furnace lining. Sprinkle **Ceraflux-40** evenly over the refractory to be treated prior to introducing aluminium. Apply 2 - 3 Kg of flux per square meter of refractory. Add the metal to the furnace and repeat this procedure for the next 5 or 6 casts.

##### **2. To remove sodium from molten aluminium in the holding furnace.**

In addition to the treatment of the furnace lining, inject between 1 to 5 Kg of **Ceraflux-40** for each metric tonne of aluminium. When there is no risk of sodium Contamination in the holding furnace, **Ceraflux-40** can be used to treat molten aluminium in the Transfer ladle bringing metal from the melting furnace. Add **Ceraflux-40** to the empty ladle at a rate of 1-5 kg per tonne of aluminium. Fill the ladle with aluminium and add sufficient **Ceraflux-40** to the metal surface to provide a continuous protective layer. Inject nitrogen or argon for Approximately 10 min to thoroughly stir and clean the metal. Skim the ladle with a suitable skimming tool before transferring the metal into the holding furnace.

**Application temperature:** 650 °C and higher.

**Addition rate:** The addition rate of **Ceraflux-40**. Exact requirements will depend on the initial and targeted levels of Na, Li, and Ca.

**Standard Packaging:** 25 kg plastic bag or 5 kg plastic bags in a 50 Kg plastic bag.

**Storage:** Like all fluxes, **Ceraflux-40** should be stored in a dry place. Close opened bags or storage bins securely after use.

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