

## PRODUCT DATA SHEET

### **CERALOY-B (2.5/3/5)**

#### **GENERAL DESCRIPTION:**

CERALOY-B is aluminium-boron master alloy recommended for grain refining aluminium alloys.

#### **PURPOSE:**

Boron is used in aluminium and its alloys as a grain refiner and to improve the conductivity by precipitating vanadium, titanium, chromium, and molybdenum. All of these are detrimental to the electrical conductivity at their usual impurity levels in commercial grade aluminium. Boron can be used alone (at levels of 0.005 to 0.1 %) as a grain refiner during solidification, Use of CERALOY-B is far more environment friendly than the conventional salt based refiners. Since no chemical reaction is involved, crucible life can be improved.

#### **ADVANTAGE:**

##### **Casting with improved and consistent mechanical and metallurgical properties :-**

CERALOY-B improves as –cast mechanical properties such as tensile strength and elongation. The longer Grain refining effect gives consistent metallurgical and mechanical properties of the castings.

#### **ENVIRONMENTAL CLEANLINESS:-**

Use of CERALOY-B gives cleaner working environment since no chemical reaction is involved

#### **APPLICATION:**

Prepare the desired alloy composition. Follow the normal fluxing and cleansing procedure recommended by using suitable flux from CERAFLUX range. Degas the melt with degassing tablet by using suitable grade from CERAFLUX range and dross off using small quantity of CERAFLUX-11. After the degassing operation, add CERALOY-B and rabble it to ensure homogeneity of the composition.

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ALLOY	% RANGE	% OTHER	ALUMINUM
B-2.5	2.0-3.0	0.5% max	Balance
B-3	2.5-3.5	0.5% max	Balance
B-5	4.5-5.5	0.5% max	Balance

**PACKING:** - 25 kg gunny.bag.  
\*Will be supplied as per the requirement of customer