

PRODUCT DATA SHEET

TIBON –5E

The Product : TIBON –5E is a Titanium & Boron Salts base Grain Refiner in tableted form for Aluminium Alloy.

Purpose : The Grain Refining of Aluminium Alloys improves hot tear resistance, reduces the harmful effects of gas porosity and redistributes shrinkage porosity. The Grain size of a cast alloy is dependent on the number of nuclei present in the Liquid Metal as it begins to solidify & on the rate of under-cooling. Addition of Tibon –5E containing titanium & boron salts to aluminium alloy melts can provide nuclei for grain growth.

Application :
Bring the metal temperature to around 750°C to 760°C maximum. With the temperature falling slowly, plunge the requisite amount of Tibon Tablets in one or more stages using a perforated bell plunger. Hold down until all bubbling ceases.

Complete the treatment by degassing followed by drossing off with CERAFLUX-11 range before adjusting temperature and casting.

Standard Pack. : TIBON – 5E is available in 50 gm / 500 gm tablet in 20 kg corrugated box.

Application Rate :
0.2 – 0.3 % of TIBON-5E in total metal quantity.