



TECHNICAL DATA SHEET

ELIDRON 201

Degassing-cleansing tablets for aluminium alloys



DESCRIPTION

Elidron 201 tablets releases Nitrogen gas useful for degassing the molten alloy. Nitrogen gas removes hydrogen entrapped by the metal during tablets melting operations and brings to bath surface all oxides, micro-oxides and impurities present in the melt.

Elidron 201 tablets have a combined effect. The tablets, reacts with temperature, release nitrogen gas present in the melt and create a multitude of bubbles pushing mechanically the impurities to the surface.

The chemical compounds contained in the product are capable to react and to clean the alloy from small impurities.

Elidron 201 is recommended for degassing treatments of all Aluminium alloys in all types of furnaces and transport ladles.

The product is not suitable for aluminium-magnesium alloys with a content of Magnesium above 3%.

In this case we recommend Elidron 208 with controlled reaction and smoke free.

PRODUCT PHYSICAL DATA

Appearance:	Tablets 90mm diameter	Colour:	Grey
Gas released:	Nitrogen gas	Metal temperature range:	640 °C – 760 °C

METHOD OF USE

Add Elidron 201 tablets in two stages to optimize washing and degassing action. The tablets should be preheated before use (for example on the top ring of the furnace) to remove possible traces of moisture of the product. Remove the drosses and plunge the tablets in the metal using a perforated bell type plunger protected with Metkote 101.

At the end of tablets reaction, remove the plunger from the bath and with the help of a drossing off flux such as Krystal Classic, remove all floating drosses.

Leave the metal resting for 15 minutes and proceed with pouring operation.

QUANTITY OF USE

The amount of use is normally 100-200 g for 100 kg of metal. At 720°C, 1 kg of Elidron 201 releases 350 litres of Nitrogen gas.

IMPORTANT NOTICE

The washing and degassing treatment with Elidron 201 should preferably follow the titanium – boron grain refining treatment to help dispersion of crystallisation nuclei formed by the grain refining compounds.

Only the experience and the control of results can determine how often treat the metal bath.

It is recommended, for foundries that maintain metal level constant with additions of solid ingots and that make frequent immersion of ladle bowls in the metal bath, to repeat treatments with Elidron 201 every 60 minutes. If the holding furnace receives liquid charges, it is sufficient to repeat the treatment after new additions of metal.

CONTROL OF RESULT

Gas and dross content can be controlled with our unit “Gas Detector”, density and hydrogen tester.

Foundry operators can note the change of metal physical properties of aluminium alloys treated with Elidron 201.

In particular: increased metal fluidity, improved metal flow ability, improved casting surface finish before and after machining and better mechanical characteristics.

PACKAGING AND STORAGE

100, 200, 300 and 500gr tablets in pvc bags packed in 25kg cardboard boxes.

Warnings: The product is hygroscopic. Store in a dry storage and away from heat sources. Close the package after each use.

If stored properly the product has a shelf life exceeding 12 months.