



TECHNICAL DATA SHEET

ELIDRON 208

Washing degassing and cleansing tablets, sodium free, for Al-Mg alloys with Mg>3%



DESCRIPTION

Elidron 208 releases Nitrogen gas which is useful for washing and degassing the molten alloy. Nitrogen gas **removes hydrogen entrapped** by the metal during melting operations and brings to bath surface all oxides, micro-oxides and impurities.

Elidron 208 tablets have a combined effect. The tablets, dissolved by metal temperature, release nitrogen gas capable to remove hydrogen dissolved in the metal and non-metallic impurities floating inside the bath.

The chemical compounds contained in the product are capable to react with oxides and to clean the alloy from non-metallic impurities. Elidron 208 is suitable for aluminium-magnesium alloys with a content of Magnesium above 3-5%. The product is Sodium free, smokes free and ideal for crucible furnaces and transport ladles.

PRODUCT PHYSICAL DATA

Appearance:	Tablets	Colour:	Grey
Gas released:	Nitrogen gas	Metal temperature range:	>720°C

METHOD OF USE

Introduce Elidron 208 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. Avoid the lowest part of the bath. At the end of tablets reaction, remove the plunger from the bath and with the help of a scorifying flux, remove all traces of drosses. Leave the metal resting for 10 minutes and start pouring.

QUANTITY OF USE

The amount of use is normally 200-300 g for 100 kg of metal. At 720°C, 1 kg of Elidron 208 releases 250 litres of Nitrogen gas.

IMPORTANT NOTICE

The washing and degassing treatment with Elidron 208 should preferably follow the grain refining treatment in order to help a perfect dispersion of crystallisation nuclei formed by the grain refining agents. 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 208 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 the Aluspeed or Gas Detector hydrogen tester. Foundry operators can note the change of metal physical properties of aluminium alloys treated with Elidron 208.

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

PACKAGING AND STORAGE

100, 200, 300, and 500gr tablets in 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.