



**JHIHGUAN METAL & MATERIAL CO., LTD.**  
**JHIHGUAN INTERNATIONAL TRADING CO. LTD.**

**志冠金屬材料有限公司**

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**PRODUCT DATA SHEET**

<b>Foundry Flux:</b>	Demagnesium Agent
<b>Item No.:</b>	JIT-M1
<b>Factory:</b>	WuYi Sunrise Metal Materials Co., Ltd., in Zhejiang, China

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**JIT-M1:** Additions for the removal of small quantities of unwanted magnesium from aluminum and its alloys.

**PRODUCT DESCRIPTION:** JIT-M1 is in powder form supplied in weighed packets or in bulk.

**PRODUCT FUNCTION:** Magnesium is desirable in some aluminum alloys, but there are specifications in the engineering alloy field where magnesium must be at a very low level. The segregation and selection of scrap is sometimes difficult and a melt may be made where the magnesium content is above the specified maximum. JIT-M1 functions by evolving a gas which preferentially combines with magnesium and removes it from the melt. It also exerts a degassing and cleansing action and an additional degassing treatment may not be necessary.

**PRODUCT APPLICATION:**

Operation temperature is 750-800°C

The application rate depends entirely upon the amount of magnesium which has to be removed. If any alloy contains more than 1% of magnesium, it is recommended that the melt be diluted with magnesium-free metal to bring the magnesium content to below 1%. Having achieved this the JIT-M1 is added at the approximate rate of 6Kg of charge weight for every 1Kg magnesium to be removed.

The charge is melted down under covering flux and its temperature raised to the required level. The JIT-M1 is injected to the bottom of the melt by Electro motion Refining Facility with inert gases, and it is held there until the reaction is complete. It is important to plunge the JIT-M1 slowly when metal temperatures are high to prevent loss of metal by splashing. For best efficiency, the treatment should be carried out in two or three stages, depending upon the amount of JIT-M1 to be applied.

A further small quantity of flux is stirred into the melt which is then skimmed and poured.

**STRONGPOINT FOR JIT-M1**

- Aluminum alloys containing unwanted magnesium are quickly and conveniently brought within specification without super heating.
- JIT-M1 also degasses and cleanses aluminum alloy melts.
- JIT-M1 is very easy to apply and needs no special equipment.