

VP 116

Inoculation Alloys

Application

VP 116 is an in stream inoculant for the inoculation of cast iron with nodular graphite. This inoculant has been specially developed for molten metal treated with pure magnesium. This applies particularly to treatments in the GF converter or treatments with pure magnesium wire. The chemical analysis of the VP-116 takes into consideration the unique features of molten metal treated with pure magnesium. Because of the low sulfur and low oxygen content of such molten metal, a strong inoculation effect is needed, especially through a corresponding Al addition. The chill and carbide formation is also suppressed in rapidly solidifying wall thicknesses.

Reference analysis

| | |
|---------|-----------|
| % Si | 68 - 73 |
| % Al | 2.5 – 3.3 |
| % Ca | 0.3 – 1.5 |
| % Mg | traces |
| % CerMM | traces |
| % Fe | residual |

Addition rate

The amount added is about 0.05 – 0.20% by weight.

Sizing

0.124 - 0.7 mm* (In stream inoculation)

* In this size the Si content is somewhat below the value indicated above.
Additional sizes available on request.

Packaging

- 25 kg paper sacks on pallet
- 100 kg steel drum on pallet
- 1000 kg super sacks on pallet

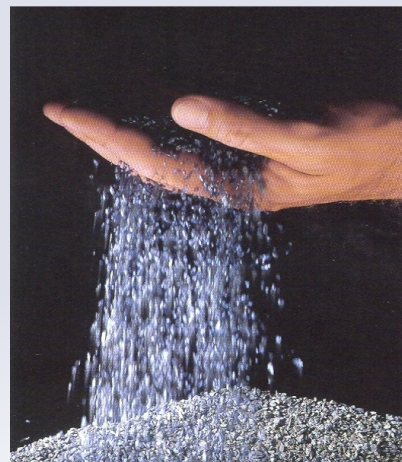
The containers are covered with a protective film.

Shelf life and transport

VP 116 can be stored indefinitely in its original packaging. The effects of humidity are to be avoided. Relevant hazardous substance regulations must be complied with. Our Shipment Handling department can provide further information. VP 116 is not a hazardous substance as defined by transport regulations.

Technical properties & economic benefits:

- Specially suitable for GJS
- For molten metal treated with pure magnesium
- Good dissolution behavior
- High effectiveness
- Low addition rates
- Improved mechanical properties



Product Management Metallurgy

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The data in this information sheet corresponds to the current state of our knowledge and is intended to provide information on our products and their potential applications. It is not therefore sufficient to assure certain properties of the products or their suitability for a concrete intended use, and does not contain any complete instructions for use. It also does not represent any guarantee of condition and durability and the user is not exempted from testing the suitability and potential applications for the intended purpose. Any extant intellectual property rights must be taken into account. The Environment and Quality Management of ASK Chemicals Metallurgy GmbH is certified and fulfills the requirements of ISO 14001 and ISO 9001. This information sheet shall cease to be valid if a new version is issued.

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