

ZM 6

Inoculation Alloys

Application

ZM 6 is a highly effective inoculant with zircon as the inoculating element. The deoxidizing effect of zircon is increased by manganese, which lowers the melting point of the alloy, thus improving the dissolution behavior of the inoculant. Thanks to the improved solubility characteristics, this inoculating alloy is also suitable for low melting temperatures. The inoculation alloy ZM 6 is used for cast iron with lamellar graphite and for cast iron with nodular graphite.

Reference analysis

% Si	62 - 68
% Zr	3 - 4
% Mn	3 - 4
% Al	1 – 1.5
% Ca	1.2 – 1.8
% Fe	residual

Addition rates

The amount added is approx. 0.3 – 0.5% and is oriented to the desired nucleation state of the molten metal and the casting to be cast.

Sizing

0.2 - 0.7 mm	(In stream inoculation)*
0.6 - 2 mm	(Ladle inoculation)
2 - 6 mm	(Ladle inoculation)

* In this grain size the Si content is somewhat below the value indicated above.

Packaging

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

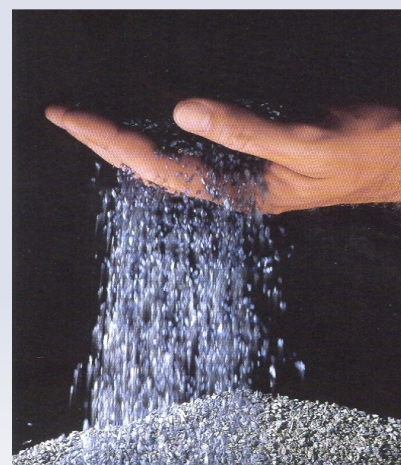
The containers are covered with a protective film.

Shelf life and transport

ZM 6 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. ZM 6 is not a hazardous substance as defined by transport regulations.

Technical properties & economic benefits:

- Very good dissolution behavior
- Strong inoculation effect
- Low addition rate
- Uniform graphite precipitation
- Suppression of carbides
- 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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