

## Application

Dispersit® is a new method of metallurgical purification of molten iron. Dispersit® reduces the surface tension of the molten metal and assists the coagulation of foreign particles or reaction products, which can thus rise at an accelerated rate. In addition, Dispersit® reduces the formation of reaction product (slag) deposits on the treatment ladle, pouring ladle and pouring furnace lining. When using Dispersit®, the addition of alloys containing Mg can be reduced during the production of cast iron with nodular graphite. For example, 1 kg Dispersit® is generally a substitute for 1 - 2 kg of a 5% FeSiMg alloy; there are corresponding empirical values when using other FeSiMg alloys. The use of Dispersit® is often successful in reducing the scrap rate caused by dross and inclusions by over 50%.

## Reference analysis

% Si	33 - 40
% Mg	4 - 7
% MM	1.5 - 3.5
% Ca	8 - 12
% Fe + [F]	residual

## Addition rate

### 1. Magnesium treatment

We recommend adding 0.1% (e.g. 1 kg/t iron) Dispersit® together with the FeSiMg (the amount of FeSiMg must be reduced correspondingly). Dispersit® is packed in bags and can therefore be used without additional weighing in most cases.

### 2. Inoculation

Dispersit® can also be added to the molten metal mixed with a conventional inoculant or special inoculant (e.g. VP 216, SB 5) when filling the casting ladle: Addition of approx. 10% of the inoculant.

## Sizing

0.4 - 2.0 mm

## Packaging

Plastic bags each 0.5 kg or 1.0 kg, packed in steel drum net 100 kg.

## Shelf life and transport

Dispersit® 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. Dispersit® is not a hazardous substance as defined by transport regulations.

## Technical properties & economic benefits:

- Preconditioning of molten metal
- Reduction of slag on the ladle and furnace lining
- Reduction of dross and slag inclusions

## 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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We advance your casting



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