

SB 5

Inoculation Alloys

Application

SB 5 is a highly effective inoculant based on ferrosilicon, it is suitable for cast iron with lamellar graphite and nodular graphite. The effect of the aluminum and calcium provides excellent inoculation in a wide range of applications. The alloy element barium extends the fade time of the inoculation effect, providing reliable inoculation over the entire casting process.

Reference analysis

% Si	65 - 70
% Ba	2 - 2.5
% Al	1 - 1.5
% Ca	1 - 1.5
% Fe	residual

Addition Rates

Addition rates vary depending on the foundry requirements (e.g. 0.05 – 0.5%).

Sizing

0.2 - 0.7 mm*	(In stream inoculation)
0.6 - 3 mm	(Ladle inoculation)
2 - 6 mm	(Ladle inoculation)

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

* Additional sizes for In Stream are available upon 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

SB 5 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. SB 5 is not a hazardous substance as defined by transport regulations.

Technical properties & economic benefits:

- Good dissolution behavior
- High effectiveness
- Long-lasting inoculation effect
- Low consumption
- Uniform graphite precipitation
- Elimination 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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