

# VP 216

## Inoculation Alloys

### Application

VP 216 is a ladle and in stream inoculant specially developed for the inoculation of cast iron with nodular graphite. The combination of the inoculation-effective elements aluminum and calcium achieves not only a higher inoculation level at the moment of addition, but also significantly reduces the fading effect compared to other standard inoculants. VP 216 is readily soluble and suppresses the carbide formation (chill). Thanks to its strong inoculation effect, VP 216 also assists the formation of a ferritic matrix in thin walls. This leads to a considerable increase in the elongation with only slightly altered tensile strength.

### Reference analysis

% Si	68 - 73
% Al	3.2 – 4.5
% Ca	0.3 – 1.5
% Mg	traces
% CerMM	traces
% Fe	residual

### Addition rate

When using as ladle inoculant: approx. 0.15 – 0.3% by weight.  
When using as an in stream inoculant: approx. 0.10 – 0.20% by weight.

### Sizing

0.124/0.2 - 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 available on request.

### 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.

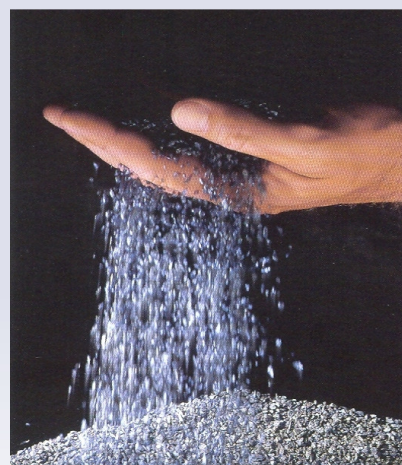
### Shelf life and transport

VP 216 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 216 is not a hazardous substance as defined by transport regulations.

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.

### Technical properties & economic benefits:

- Specially suitable for GJS
- Good dissolution behavior  
Highly effective in thin-walled casting
- Low consumption
- Increased number of nodules
- Improved mechanical properties
- Increased elongation



### Product Management Metallurgy

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