

Long term inoculant based on a special natural graphite mined for the graphite pre-inoculation of cast iron melts in the production of EN-GJS.

Application

RANCO[®] inoculant is added either to the bottom of the ladle or directly into the pouring stream.

Approx. 0.3% of RANCO[®] inoculant is added per ton of molten iron.



Benefits of RANCO[®]

Generally, inoculants with an FeSi basis, for example, lose about 50% of their effectiveness in the first 5 minutes of their melt holding time (so-called „decaying effect“).

Graphite pre-inoculation with RANCO[®] inoculant is a safe and supporting method that uses conventional inoculants to suppress the decaying effect and help maintain the consistent effectiveness of your inoculation over periods of about 15 minutes. It has a positive effect on the nucleation distribution and nodular graphite formation.

Supercooling during solidification is more – controlled and unwanted carbide formation is effectively suppressed.

The tendency to chill is significantly reduced, especially in the case of thin-walled, rapidly cooling cross-sections.

The ideal combination of graphitic pretreatment with RANCO[®] inoculant and conventional inoculants improves mechanical and physical properties such as tensile strength, elongation, hardness and machinability of the casting. Significant cost savings can be achieved by

PRODUCT INFORMATION

RANCO® inoculant

reducing the number of rejects and introducing additional measures such as heat treatment or re-alloying.

We would be glad to support you in improving the quality and success of your products.

Your Richard Anton KG Team

Grain sizes

In order to achieve effective graphitic preinoculation, we recommend a grain size of 1-4 mm.

Quality
Reliability
Progress

