

VEINO ULTRA™ 2000



HYBRID ADDITIVE WITH SELF-CLEANING EFFECT FOR HIGHER PRODUCTIVITY

In core production, molding material mixtures consisting of sand, binder and, if necessary, sand additive are blown into the core box at high pressure. Depending on the core geometry, the core box material and the machine parameters, a layer of sand and binder components builds up over time underneath the gate. In order to delay this build-up as much as possible, the use of release agents is significantly increased in common practice. Despite all efforts, production interruptions for cleaning work cannot be ruled out.

With VEINO ULTRA™ 2000, ASK Chemicals has developed a highly effective sand additive that increases productivity in serial core production by reducing cleaning intervals – without sacrificing the fundamental advantages of additives.

TECHNOLOGICAL ADVANTAGES

- Lower core box maintenance due to sand and binder build-up
- Very good flowability and compaction of the core molding compound in the core box
- Good anti-veining effect



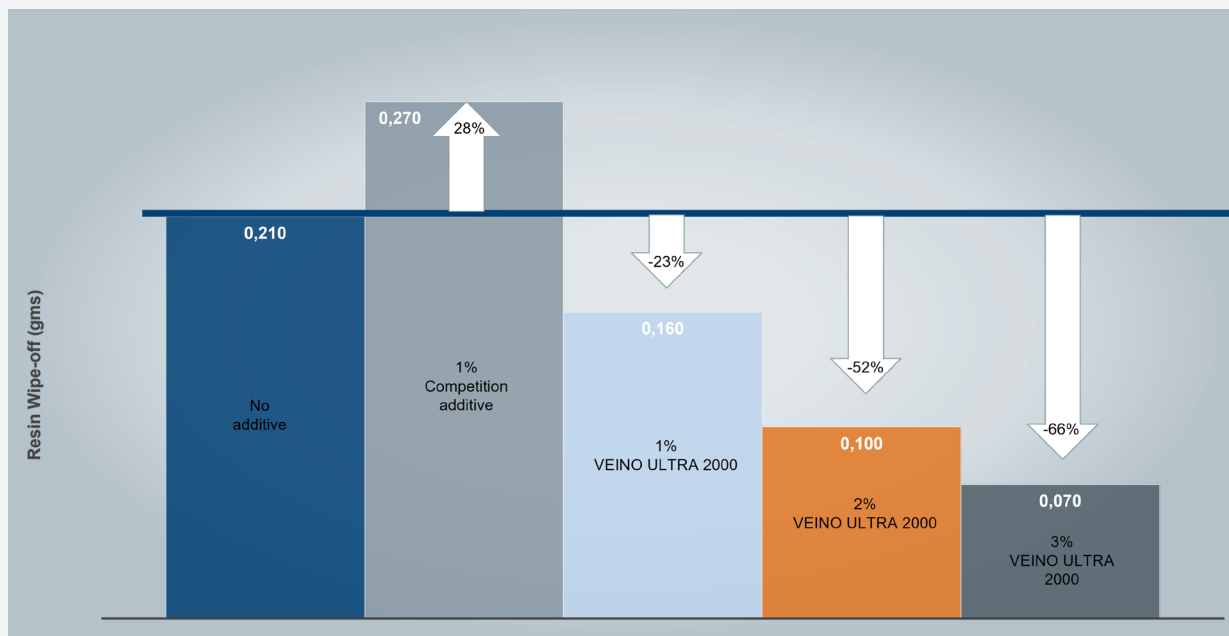


Figure 1: Comparison of additives in the sand and binder structure in the core box.

Productivity and efficiency benefits for cold box core production

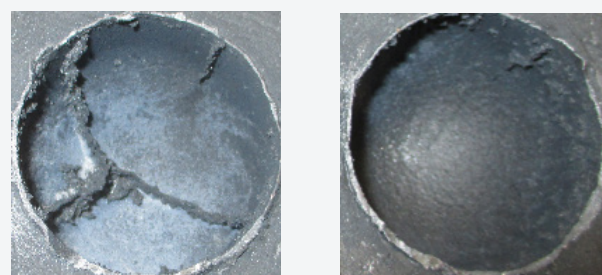
The patented additive VEINO ULTRA™ 2000, thanks to its self-cleaning effect, offers core shops the possibility to substantially increase productivity. The innovative self-cleaning effect results in a significant reduction of sand and binder build-up precisely at critical points below the blow area.

Figure 1 compares core molding compounds without additive, with competitive additive and with VEINO ULTRA™ 2000 with respect to core box maintenance. The comparison clearly shows less contamination with VEINO ULTRA™ 2000. Users confirm this effect and have noted a significant increase in productivity in core making.

The use of VEINO ULTRA™ 2000 also saves on release agents.

Better casting quality with VEINO ULTRA™ 2000

The efficiency-enhancing component responsible for the „self-cleaning effect“ also has another property. Casting quality is enhanced by the good anti-veining effect of the sand additives, resulting in less rework.



Without additive

With 2 % VEINO ULTRA™ 2000

Figure 2: Comparison of sized dome cores; additive addition 2 % in the sand mixture; casting in GJL, casting temperature approx. 1420 °C

YOUR SUSTAINABILITYPLUS

Profitability

- Relatively small amounts added
- Less release agent required
- High tool availability
- Prevents casting defects
- Less fettling and rework in the foundry

Environment & Social

- Hybrid additive with >70 % inorganic components
- No resin coating for less emissions