

MORGANITE[®] ACE Stopper Rods

Best-in-class erosion resistance and thermal shock resistance

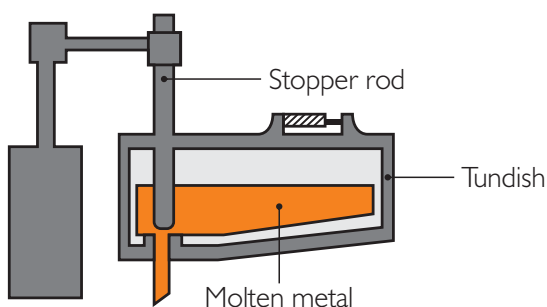
Morgan Molten Metal Systems has introduced its new product range of Alumina-Carbon stopper rods for applications in ductile iron, grey iron and special grade alloys. Produced with advanced CIP dual ceramic technology, our Morganite ACE stoppers feature extended service life, minimal metal leakage and improved employee safety.

Morganite ACE Stopper Rods are suitable for auto pour application like unheated tundish system, as well as in press pour systems. They show significant strength and erosion resistance upto temperatures of 1600-1700°C (2900-3100°F). Morgan's advanced material processing technology results in homogeneous structure, which further yields superior performance in customers' applications.



Stopper Rods

Nozzles



Features

- Advanced CIP technology gives homogenous dense structure
- Dual ceramic composition extends lifecycle
- Best in class erosion resistance and thermal shock resistance
- Excellent oxidation resistance
- Special coating on nozzle and stopper to minimize sticking

Benefits

- Reliable flow control system - Stopper and Nozzle engineered for custom fit
- Extended life
- Reduced downtime, lower stoppages
- Higher mechanical strength minimizing breakage during operation
- Minimum metal leakage
- Less breakages lead to higher safety of operators

Case study - Lifecycle Extended 33%

Application:

Unheated tundish autopour system for Ductile iron castings

Customer Challenge:

- Life obtained with competitor Stopper Rod : 2-3 days
- Down time and loss of production due to frequent breakage, faster erosion and inconsistent life of the Stopper Rods
- Initial leakage problem with every fresh installation of Stopper Rod and Nozzle
- Almost 20-25% higher consumption of Stopper Rods and Nozzles due to breakages and down time

Morgan ACE
Stopper Rod



No breakage
after use

Competitor
Stopper Rod



Break after use due
to severe erosion

Morgan ACE
Stopper Rod



Less erosion observed
after 5 days

Competitor
Stopper Rod



Eroded after
3 days

Morganite ACE Stopper Rod: Our Solution

- Morgan has supplied newly developed Carbon Bonded Stopper Rod with Graphite nozzles.
- The fitment of Morgan stopper rod with Nozzle was seamless and there was no metal leakage.
- Life with Morgan flow control system – 4~5 days

Benefits

- Life extended by 33% leading to reduction in consumption
- Smooth operation with no initial leakages
- Minimal erosion even after lifetime

For all enquiries, please contact us: mms.marketing@morganplc.com

Molten Metal Systems is a business of Morgan Advanced Materials