

MORGANITE ACE Stopper Rods

Best-in-class erosion and thermal shock resistance

Morgan Molten Metal Systems offers a high-performance range of Alumina-Carbon stopper rods for demanding applications in grey iron, ductile iron and special grade alloys. Manufactured using isostatically pressed dual-ceramic technology.

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 up to 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.



ACE stoppers feature extended service life, minimal metal leakage and improved employee safety.



Available with open & close end in various length from 400-1168 mm, max dia.120 mm. Graphite and refractory nozzle are available in various sizes to suit requirement



Unheated tundish

Press pour with heated tundish

Features

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

Operation Excellence Benefits

- Reliable flow control system Stopper and Nozzle engineered for custom fit.
- Extended service life- Reduced downtime, lower stoppages.
- Higher mechanical strength minimizing breakage during operations -ensures higher safety.
- Minimum metal leakage.





Case study -Life extended by 50%



Customer: Auto components manufacturer, Asia

Application:

Unheated tundish auto pour 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 stoppers.
- 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.

Morganite ACE Stopper Rod Competitor Stopper Rod



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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: $4 \sim 5$ Days.

Operation Excellence Benefits

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

MORGANITE ACE Engineering Superior Performance

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