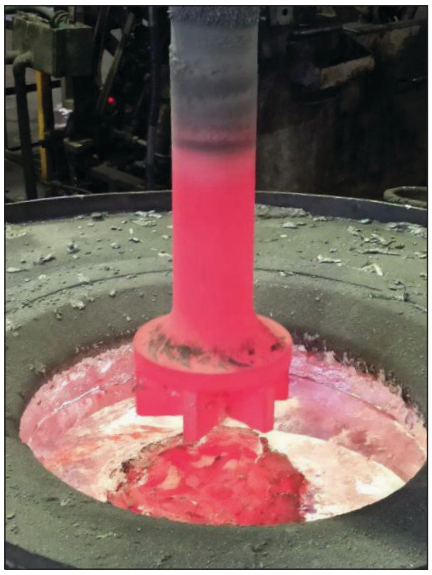
Morgan Advanced Materials

MOLTEN METAL SYSTEMS

MORGANITE® ACE Degassing Rotor

Degassing Rotors for Foundry



Morganite ACE Degassing Rotors (DGR) are advanced ceramic technology products for efficient degassing and improved melt quality.

Featuring a composition that offers lifecycle performance up to 3x current market benchmark and resolves issues that arise from ever-increasing and demanding quality standards placed on the metal casting industry.

Morganite ACE DGR products can create an edge through consistent performance, substantial value and reliability, thus reducing total cost of ownership.

Features

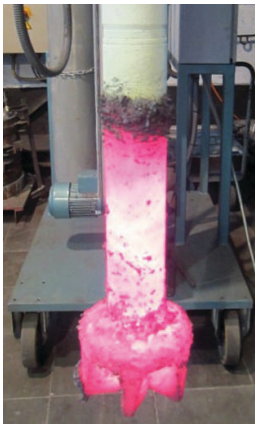
- Best in class erosion resistance
- Superior degassing performance
- Excellent oxidation resistance
- Unique rotor design generates finer gas bubbles and disperses uniformly
- Customised rotor design development

Benefits

- Extended lifecycle resulting in less changeover
- Improved degassing and fluxing efficiency
- Efficient removal of hydrogen
- Superior metal quality
- Improved casting process and overall foundry performance

MORGANITE ACE
Engineering Superior Performance

Case study– Auto compoments manufacturer, Asia



Application

Gravity and Pressure Die Casting

Current challenges with graphite rotor

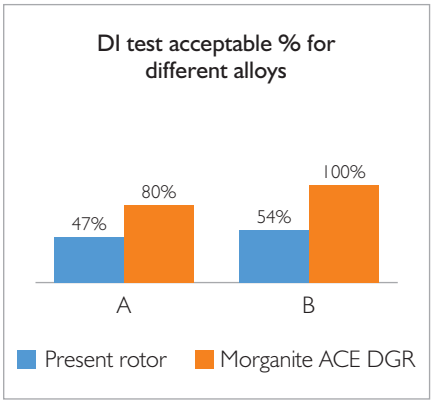
- Limited life- Oxidation and erosion – Avg. 500 cycles
- Nonlinear Density Index (DI) due to rotor geometry deterioration
- Frequent changeovers – Avg.3 Nos/Month

Morgan Solution

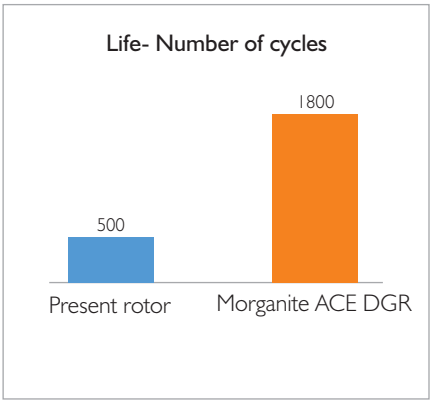
Morgan's Silicon carbide Degassing rotor with unique design. Operating parameters kept unchanged.

Performance Results :

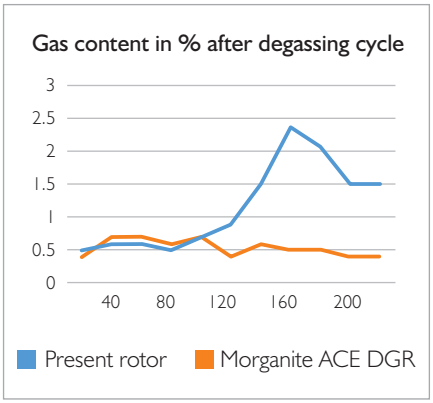
Melt Quality improvement



Reduced number of changeover



Consistent degassing efficiency



Benefits

- Improved Melt quality - Achieved higher acceptble DI % > 60% against present product
- Extended life -Life improved by around 4 times
- Reduction in cost, higher throughput
- Changeovers reduced to 1/3rd and uncertainty of life eliminated
- Minimum Hydrogen gas content in the melt throughout life

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

Molten Metal Systems is a business of Morgan Advanced Materials

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