



MOMENTIVE
performance materials

VaporStar* Intermetallic Composite (IMC) Evaporation Boats

Relax. Your boat just sailed in.

Introducing VaporStar boats, the newest addition to the Metallist* line of IMC boats for high-speed metallizing applications.

Designed to deliver **increased output** from your vacuum metallization chamber and **reduced operating costs**, VaporStar boats provide **outstanding ease of use** and **increased boat life**.

VaporStar boats virtually eliminate the historic performance tradeoff between high wettability and excellent corrosion resistance.

Call for a sample today.

Lower operating costs driven by increased boat life

- Up to 65% longer life vs. typical 2- and 3-part boats

Improved equipment utilization and throughput

- High thermal shock resistance of boats reduces unexpected downtime
- Fewer boat change-outs result in increased machine uptime

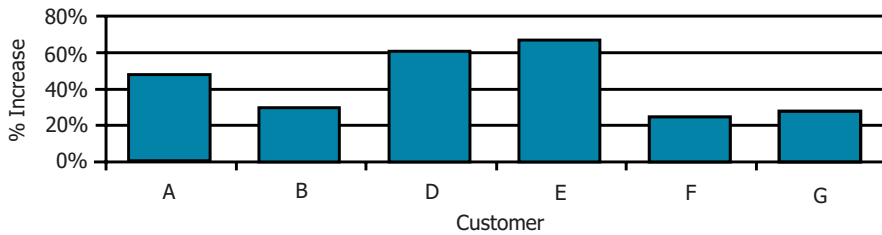
Improved metallization performance through superior boat wettability

- Twice the wettability of standard boats, even after formation of slag and grooves
- Improved aluminum deposition uniformity and puddle stability over the complete life cycle of the boat

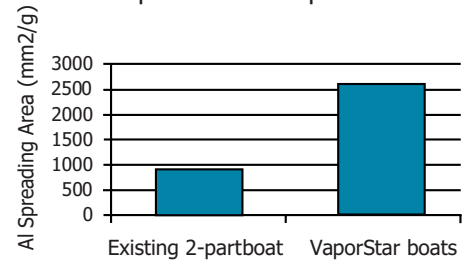


Performance characteristics

Increase in Boat Life of VaporStar* Boats vs. Current Boats



Aluminum Spreading Area at Vaporization Temperature



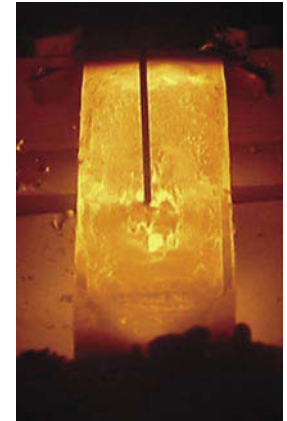
Designed with you in mind

In developing a new metallization boat that would help deliver **measurably improved boat life and operating performance**, Momentive worked with metallizers to define those critical boat characteristics that **translate to real benefits in customers' operations**. Using Design for Six Sigma rigor, Momentive developed quantitative measures of boat wettability and other key performance requirements.

Over 12 different boat technologies were tested in the laboratory - and at actual metallizers - to link performance to critical boat characteristics. Once optimized, the boats were **validated with numerous industry-leading metallizers**. It is this type of design rigor that makes VaporStar boats a true breakthrough in evaporation boat technology.



VaporStar boat at 10 minutes: Improved wetting, excellent puddle stability



VaporStar boat at 10 hours under aggressive feed rates: Maintains full-cavity wet-out and excellent puddle stability

Metallist* IMC boat products

- Classic* grade – GOOD - An industry workhorse for over 30 years
- StabilizerPlus* boats – BETTER - Improved wet-out, longer stability, up to 20% more output per boat set
- VaporStar boats – BEST - Best in class boat life, wettability, and plate uniformity

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