

IWS Technology: Innovation in Steel Protection

A molecular revolution that transforms how dishwashers manage limescale, preserving steel integrity and ensuring lasting performance over time.

The Problem of Limescale in Dishwashers

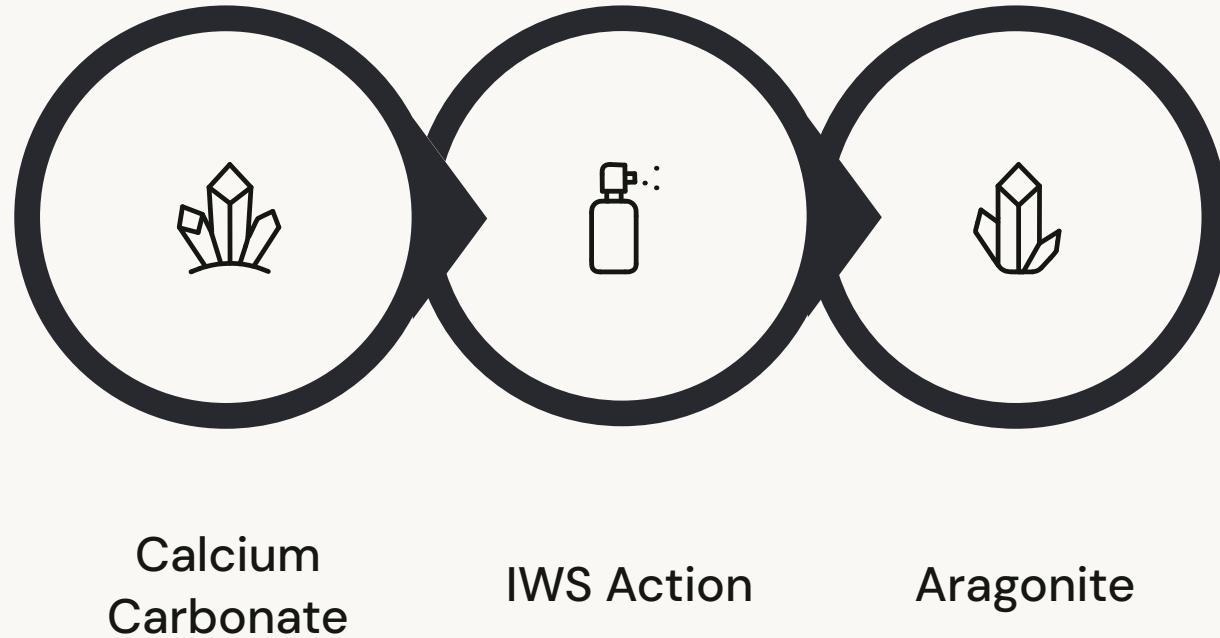


The Challenges of Traditional Limescale

Calcium carbonate in its common form represents a constant threat to household appliances. It aggregates, forming hard and resistant deposits that compromise energy efficiency and damage metallic components.

- Persistent encrustations on heating elements
- Accumulation on baskets and metal surfaces
- Increasing energy inefficiency
- Frequent and costly maintenance

The Solution: Molecular Transformation



IWS technology intervenes at a molecular level, modifying the crystalline structure of calcium carbonate and transforming it into aragonite, a completely different crystalline form that revolutionizes the material's behavior.

Aragonite vs. Limescale: Two Worlds Compared

Limescale (Calcite)

Trigonal crystalline structure

- High aggregation capacity
- Forms hard and compact incrustations
- Adheres tenaciously to surfaces
- Difficult to remove once deposited

Aragonite

Orthorhombic crystalline structure

- Zero aggregation capacity
- Fine and inconsistent powder
- Does not adhere to metal surfaces
- Easily removable with a simple cloth

The Difference Under the Microscope

At a microscopic level, the transformation is evident: calcite crystals show a compact and aggregating structure, while aragonite appears as fine, separate particles that cannot form encrustations.

Technical Advantages of IWS Technology

Guaranteed Protection

The IWS system ensures that the steel maintains its **natural passivation** intact, the original factory protection that preserves optimal performance over time.

01

No Scaling

Heating elements and baskets remain completely clean, without any deposits.

02

Passivation Preserved

The steel retains its original factory natural protection, ensuring durability.

03

Reduced Maintenance

Fewer cleaning interventions and longer component lifespan.

04

Constant Efficiency

Optimal performance maintained over time without degradation.

Easy Cleaning, Lasting Protection

With IWS technology, maintenance becomes simple: aragonite is easily removed with a cloth, leaving the steel protected and brilliant as on day one. An innovative solution for appliances that last over time.