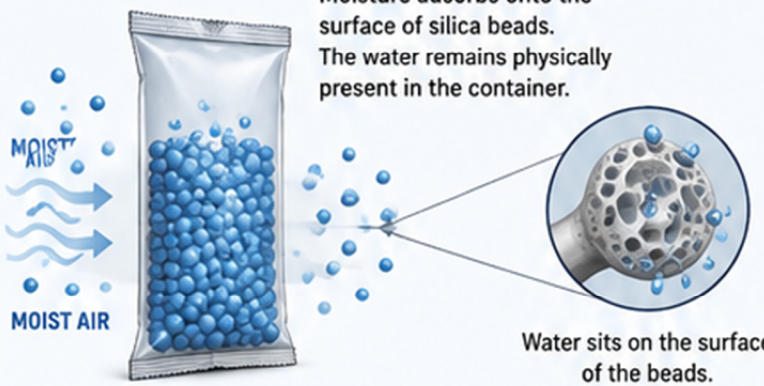
MOISTURE CONTROL THAT PROTECTS WHAT MATTERS

TRADITIONAL SILICA GEL vs STEEL CAMEL POLYMER TECHNOLOGY

TRADITIONAL SILICA GEL

HOW IT WORKS

Moisture adsorbs onto the surface of silica beads.
The water remains physically present in the container.



Water sits on the surface of the beads.

WHAT HAPPENS OVER TIME

FRESH
Ready to absorb moisture.

SATURATED
Beads are full; moisture remains in the bag.

AT CAPACITY
Must be regenerated or replaced.

Moisture remains in the container.
Performance drops as beads saturate.
Requires regeneration (heat) or replacement.

STEEL CAMEL POLYMER (MOISTURE-HOG™) TECHNOLOGY

HOW IT WORKS

Water vapor is attracted into a polymer material.
The polymer chemically binds and swells as it absorbs water.

Water is bound within the gel structure.

WHAT HAPPENS OVER TIME

FRESH
Ready to absorb moisture.

SWELLING
Polymer absorbs and chemically binds water.

AT CAPACITY
Bag is fully swollen; replace and dispose.

Water is permanently bound in the polymer.
High capacity and consistent performance.
No regeneration needed—just replace.

FEATURE COMPARISON

MOISTURE CAPTURE	Adsorbs moisture on the surface of silica beads.	Chemically binds water vapor within the polymer structure.
CAPACITY	Lower capacity; saturates sooner.	Higher capacity; absorbs more moisture per bag.
PERFORMANCE	Decreases as it approaches saturation.	Consistent until fully swollen.
REGENERATION	Requires heating to drive out moisture.	No regeneration needed. Replace and dispose.
LEAKAGE RISK	Moisture can be released if the bag is damaged or overheated.	Water is locked in the polymer. Minimal leakage risk.
INDICATOR	No visible change.	Bag visibly swells as it absorbs moisture—easy to monitor.

THE RESULT

LOWER HUMIDITY
Removes moisture vapor before it can condense.

REDUCED CORROSION
Protects metals, electronics and critical equipment.

IMPROVED RELIABILITY
Prevents leakage current, dendritic growth, ECM and intermittent failures.

PEACE OF MIND
Set it and forget it—reliable, maintenance-free protection.

IDEAL FOR PROTECTING IN CRITICAL ENVIRONMENTS

ELECTRONICS & PCBA

Prevent corrosion, leakage and dendritic growth.

SEALED ENCLOSURES

Control humidity from outgassing gaskets, plastics and adhesives.

AUTOMOTIVE MODULES

Protect sealed lighting, ECUs and control units.

DATA CENTERS

Reduce condensation risk in critical equipment.

INDUSTRIAL EQUIPMENT

Prevent moisture-related downtime and corrosion.

LONG-TERM STORAGE

Keep hardware dry and mission-ready.

BOTH SOLUTIONS REMOVE MOISTURE.
STEEL CAMEL POLYMER TECHNOLOGY GOES FURTHER—DELIVERING HIGHER CAPACITY, CONSISTENT PERFORMANCE, AND SIMPLER PROTECTION THAT YOU CAN SEE AND TRUST.

THE GOAL IS THE SAME:

NO MOISTURE. NO CORROSION. NO SURPRISES.

STEEL CAMEL®
PROTECTING CRITICAL ASSETS™
steelcamel.com

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