

Product Sheet

CONTAINER DRI® II



PURPOSE

To protect cargo from the harmful effects of moisture damage during shipping via container, rail, or truck.

WHAT IS IT?

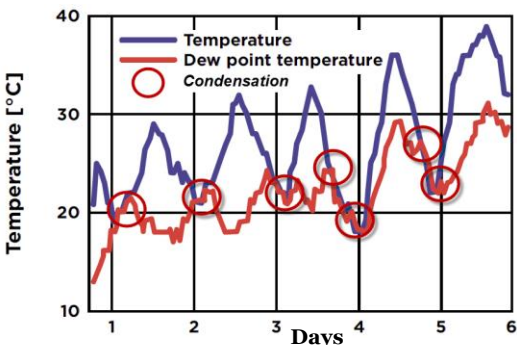
Container Dri® II is a line of specially designed cargo desiccants aimed at protecting cargo during shipping by aggressively absorbing moisture from the air. In doing so, Container Dri II reduces dew point temperature (the temperature at which condensation begins to form, causing “container rain”), keeping cargo safe and dry. The Container Dri II line includes several configurations to best fit different needs and modes of transport, and carries the Clariant EcoTain® label for products with outstanding sustainability advantages.

WHY USE IT?

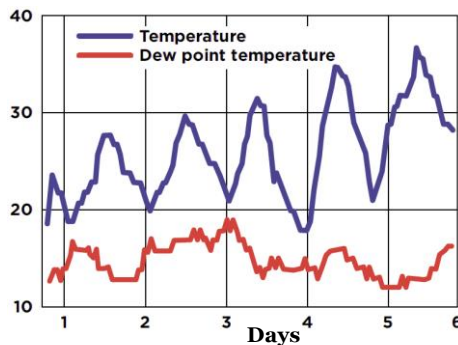
As goods move through intermodal systems, they are susceptible to damage from excessive moisture. Container Dri II adds a level of protection by reducing dew point to avoid the accumulation of condensation. Container Dri II absorbs up to three times its weight in moisture, and through an advanced formula, traps it as a thick, no-spill gel. Container Dri II has the ability to protect shipments from start to finish, through all temperature ranges and relative humidity variances, and continues to reduce the relative humidity down to levels below 40 percent RH, which decreases the dew point temperature even further.

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 CARGO & DEVICE PROTECTION
 BU FUNCTIONAL MINERALS

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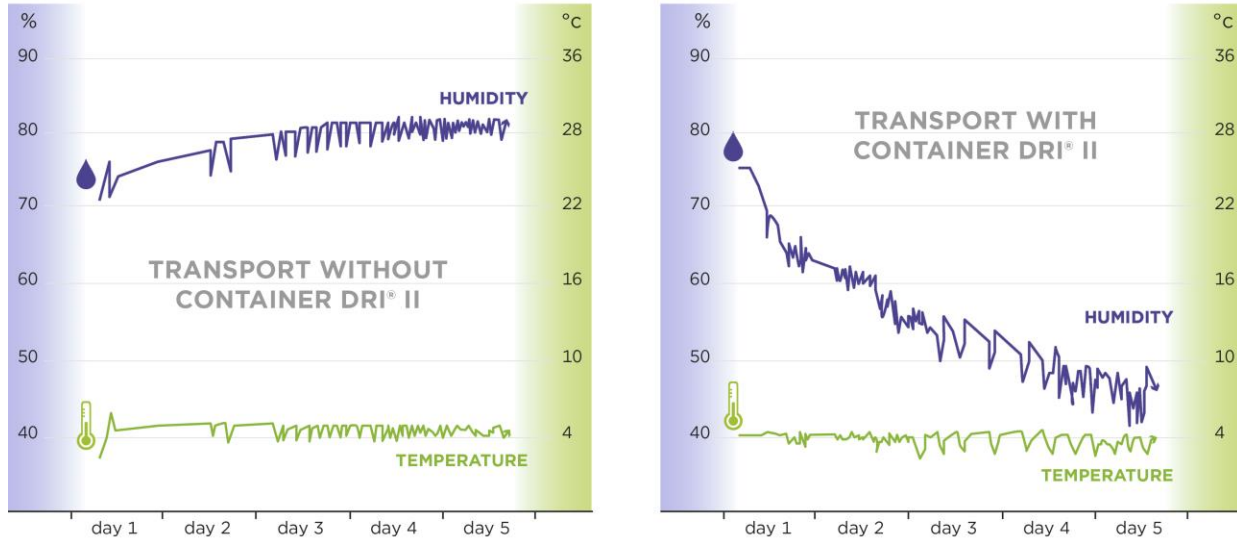


Transport without dew point control
 Condensation occurs when surface temperature and dew point temperature are equal.



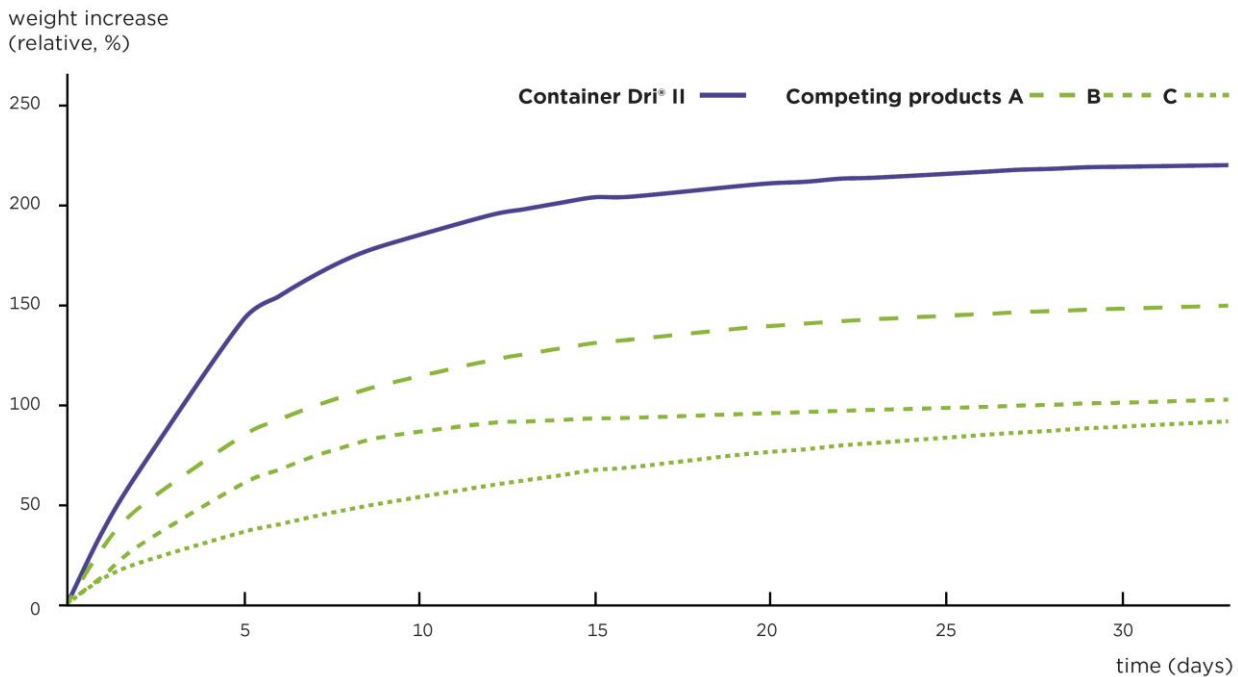
Transport with dew point control
 Dew point temperature is kept below surface temperature, preventing condensation and moisture damage.

COMPARISON OF HUMIDITY AND TEMPERATURE WITH AND WITHOUT CONTAINER DRI® II



Source: Süd-Chemie: Test Shipment of Onions from Oregon to New York (15.04.2002)

COMPARISON OF CONTAINER DRI® II PERFORMANCE TO OTHER DRYING AGENTS



Source: Johannes Petzold, Stefan Wiener (Institut für Beratung – Forschung – Systemplanung – Verpackungsentwicklung und -prüfung, Hochschule für Angewandte Wissenschaften Hamburg [Institute for Consulting, Research, System Planning, Packaging Development and Testing at the Hamburg University of Applied Sciences]): F+E-Projekt – Prüfbericht 6 Containertrocknungssysteme (16.04.2010), p. 9

AVAILABLE CONFIGURATIONS

Container Dri® II is available in several configurations to best accommodate different modes and methods of shipping. The number may vary depending on shipping conditions and the nature of the products being protected. Clariant works with customers to determine the optimal number of bags needed to protect goods for the duration of their journey.

Description	Weight	Dimensions	Usage recommendation	
			20-ft Cont.	40-ft Cont.
Container Dri®II --individual bags either with or without adhesive backing.	125g	5.25" x 10.5"	32-36	64-72
Container Dri®II-Strip --adhesive strips for installation onto the walls of shipping containers.	750g	5.25" x 63"	5-6	10-12
Container Dri®II-Pole --designed for easy hanging inside shipping containers.	750g	5.25" x 39.75"	5-6	10-12
Container Dri®II-Pack --configured in a hard shell to be hung and suspended high in a container.	750g	430mm x 235mm	5-6	10-12
Container Dri®II-Pack --configured in a hard shell to be hung and suspended high in a container.	1500g	430mm x 475mm	3-4	5-6
Container Dri®II-Plus --complete with a hook and strap system that can be hung and suspended inside containers, river barges and rail cars.	1500g	20.5" x 22"	3-4	5-6



CONTAINER DRI® II - BENEFITS



Meets FCC Guideline
Recommendation for Shipments
of Cocoa Beans in Containers



ECOTAIN®

CLARIANT ECOTAIN®
Distinction in Sustainability



Recommended by The World
Food Programme (WFP) and
The U.S. Agency for International
Development (USAID) in
Container Loading Specification



Safe for direct use
with food products



Best performance
in the market



Cost-effective; more absorption
with less desiccant



Dimeethyl Fumarate Free
(DMF) – Non-Toxic
No SVHC
(Substances of very high concern)



Safe and easy to handle



Dispose with normal
industrial waste

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application.* Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.*

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