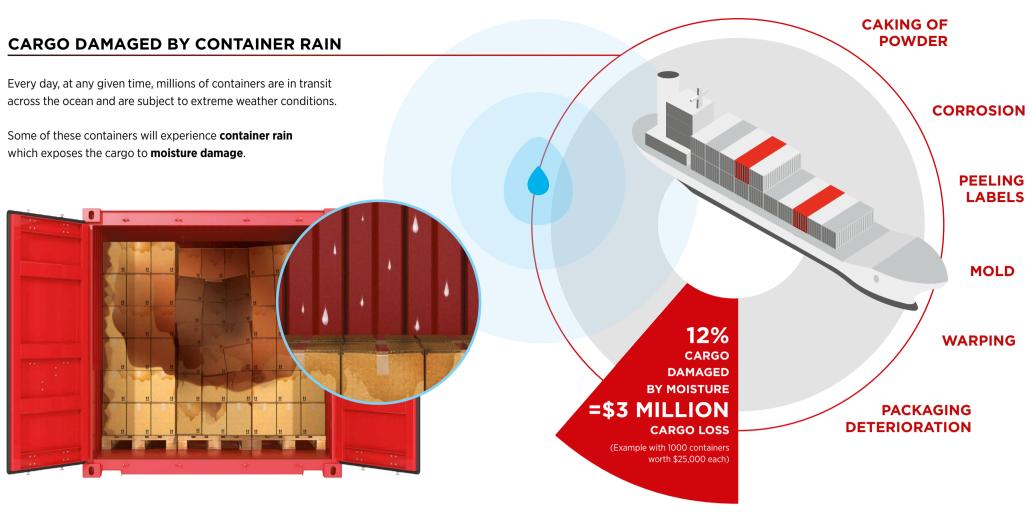
Protecting shipments from moisture damage CONTAINER DRI™ II

CLARIANT



WHAT IS CONTAINER RAIN AND HOW DOES IT HAPPEN?



HUMIDITY INSIDE CONTAINERS from

- loading in humid environments
- products with high moisture content
 packaging and dunnage with high moisture content



TEMPERATURE MAY DROP

- when shipped to colder climates
- due to cold front
- with day-to-night temperature fluctuations



CONTAINER RAIN RESULTS

when the surface temperature of a container drops below the
 dew point, the moisture in the air inside the container will condense
 on the walls and ceiling, forming water droplets »container rain.«
 This cycle can repeatedly happen during an ocean voyage with
 every change in the weather.

HOW TO CONTROL DEW POINT AND PREVENT CONTAINER RAIN WITH CARGO DESICCANT CONTAINER DRI II



Under certain conditions, approximate, absorption capacity of a 125 g bag:

> 400%

of its weight or approx 500 g H₂O at 95% relative humidity and 40 °C

The higher the moisture, the more aggressive the absorption

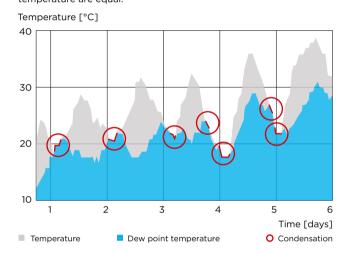
Its high performance enables more absorption with less desiccant, making it a cost effective and economical solution.

HOW?

As the cargo desiccant absorbs moisture it reduces the dew point below surface temperature, preventing condensation from forming on the walls of the container.

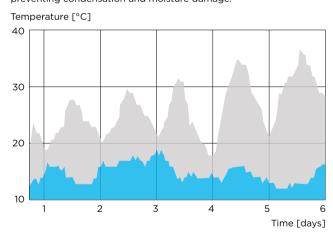
TRANSPORT WITHOUT DEW POINT CONTROL

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.



Temperature Dew point temperature controlled Source: Clariant BU AA, Application and Development Dpt.

CONTAINER DRI II - EASY TO USE



VARIETY OF CONFIGURATIONS

- Carabiner and strap for hanging or suspending
- Hook design for easy hanging
- Adhesive strips for installation onto shipping walls
- Hard shell that can be hung or suspended
- Individual bags with or without adhesive backing
- Blanket that can be adhered to cargo or a cardboard slip

SAVINGS AND BENEFITS OF USING CONTAINER DRI II



SIGNIFICANTLY REDUCES CARGO LOSS due to moisture damage



PROTECTS SHIPMENTS from start to finish



NON-TOXIC
Safe for contact with food products



ABSORBS UP TO MORE THAN 3X its weight in moisture



INSTALLS IN MINUTES



EASY DISPOSAL



TRAPS MOISTURE as a thick, no-spill gel



SAVES COSTS due to more absorption with less desiccant