Desiccant

Tyvek Plastic or Kraft Paper Pouch

This efficient desiccant begins it's work by absorbing air borne moisture left inside the bag when you've finished vacuum packaging. Then it captures moisture that manages to pass through the bag material. Secured in a strong envelope of either clean room compatible, sulphur-free Tyvek or economical Kraft Paper, SCC desiccant helps keep your devices dry, even through unexpected shipping delays or longer than anticipated storage time.

<u>Standards</u>

MIL-D-3464, EIA 583, IPC/JEDEC J-STD-033

Specifications

Pouch:	Kraft paper or Tyvek plastic	
Print:	Blue ink	
Unit sizes:	1/6, 1/3, 1/2, 1, 2, 4, 8, 16	
Media:	montmorillonte clay	
Form:	Free flowing even when fully	
	saturated.	
Packaging:	Air tight pails or drums	





Kraft Paper

<u>Sizes</u>

Bag Size	·	Bags per Container	Tyvek Bags P/N	Kraft Bags P/N	Container Weight	Width	Pouch S Length	Size Thickness
1/6	Unit	1200	1/6TYDES1200	1/6KDES1200	24	3	3	1/8
1/3	Unit	700	1/3TYDES700	1/3KDES700	25	3	3-1/4	3/16
1/2	Unit	550	1/2TYDES550	1/2KDES550	27	3	3-1/2	1/4
1	Unit	300	1TYDES300	1KDES300	29	5	3-1/2	1/4
1	Unit	1300	1TYDES1300	1KDES1300	114	5	3-1/2	1/4
2	Unit	150	2TYDES150	2KDES150	29	5	4-3/4	3/8
2	Unit	800	2TYDES800	2KDES800	136	5	4-3/4	3/8
4	Unit	500	4TYDES500	4KDES500	163	5	6	1/2
8	Unit	300	8TYDES300	8KDES300	192	5	8	1-1/8
16	Unit	150	16TYDES150	16KDES150	189	5-3/4	10	1-1/2

Humidity Indicator Cards Moisture Barrier Bags Vacuum Sealers

PRODUCT DATA SHEET

Desiccant in Tyvek Plastic or Kraft Paper Pouch

PRODUCT DESICCANT, TYVEK OR KRAFT POUCH ITEM NUMBERDATASHEETSEE ABOVE1110-c



US and Canada: **866-722-3736** Fax: 866-722-3735 Intl: 919-774-3808 Fax: 919-774-1287 3010 Lee Avenue Sanford, NC 27330 email: info@staticcontrol.com www. **StaticControl.**com ©

Desiccant

Calculating Desiccant Loading

What is Desiccant?

Desiccant is a drying agent that is used to absorb moisture from the air inside moisture barrier bags. Desiccant absorbs moisture vapor (humidity) from the air left inside the barrier bag after it has been sealed. Any moisture that penetrates the bag will also be absorbed. Desiccant remains dry to the touch even when it is fully saturated with moisture vapor.

How much Desiccant do I need?

Desiccant is sold by the "Unit" or fractional Unit, or in grams. One unit of desiccant will absorb a specific amount of moisture. A unit weighs about 33 grams. There are several standards for calculating the desiccant loading for bags. Each standard is for a specific application, and requires different amounts of desiccant for the same bag size. Once you determine which standard is correct for your dry packing application, apply these formula, or go to www.StaticControl.com and select the Desiccant Calculator.

Why are electronic devices moisture sensitive?

Certain kinds of electronic devices called "Surface Mount Devices" or SMD's are mounted on a circuit card by high temperature soldering. The body of the SMD is made from plastic that absorbs moisture from the air. When the case is heated during soldering, the moisture inside turns to steam, and may break the device as the steam escapes. Keeping SMD's dry before soldering means that the devices will not be damaged.

IPC/JEDEC J-STD-033	EIA 583	MIL-P-116			
Application:	Application:	Application:			
Dry packaging for SMD's.	Dry packaging for SMD's. Allows adjustment of environmental conditions.	General dry packaging.			
What You Need Know: Bag Size, Bag MVTR, Storage Time in Months.	What You Need Know: Bag Area, Bag MVTR, Months of Storage, Maximum Interior Humidity	What You Need Know: Bag Size			
	(MIH).				
Formula:	Formula	Formula:			
Units= 0.304 x Months x Bag MVTR x Bag Area Moisture Capacity	Formula: Units= <u>0.231 x Bag Area x Bag MVTR x Months</u>	Units = 0.011 x Bag Area in square inches.			
Example:	Moisture Capacity	Example:			
8" x 10" inch Barrier Bag, with a 0.002 MVTR and a	Example:	8" x 10" inch Barrier Bag			
12 month storage time.	8" x 10" inch Barrier Bag, with a 0.02 MVTR, a 12 month storage time, and a MIH of 20%.				
Find Bag Area:		Find Bag Area:			
8" x 10" x 2 sides =160 sqin.	Find Bag Area:	8" x 10" x 2 sides =160 sqin.			
	8" x 10" x 2 sides =160 sqin.	Apply Formula:			
Apply Formula:	Select Meisture Conscitu based on Mills	Units = 0.011 x 160 sqin = 1.8			
Units= 0.304 x 160 sqin x 0.002 MVTR x 12 months 6.6667 g/unit	Select Moisture Capacity based on MIH: 10% MIH: 3.0 g/unit 20% MIH 4.8 g/unit 30% MIH 5.8 g/unit 40% MIH 6.2 g/unit	Use 2 Units of desiccant.			
c.cccr g, and	Apply Formula:	Use 2 Units of desiccant.			
Units = .2 Use 1/6 unit of Desiccant.	Units= 0.231 x 160 sqin x 0.02 MVTR x 12 months				
	4.8 g/unit Units = 1.8 units Use 2 units of desiccant.				
	Units = 1.8 units Use 2 units of desiccant.				
PRODUCT DATA SHEET					

Desiccant in Tyvek Plastic or Kraft Paper Pouch

PRODUCT DESICCANT, TYVEK OR KRAFT POUCH ITEM NUMBERDATASHEETSEE PAGE 11110-C



US and Canada: **866-722-3736** Fax: 866-722-3735 Intl: 919-774-3808 Fax: 919-774-1287 3010 Lee Avenue Sanford, NC 27330 email: info@staticcontrol.com www.**StaticControl.**com ©