Desiccant Loading on Page 2

Pouch Size

Pouches Container

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.

Twyk Pouch

Standards

MIL-D-3464, EIA 583, IPC/JEDEC J-STD-033		(Plastic)	Size	Part Number	per Container	Weight (pounds)	Width (in)	Length (in)	Width (mm)	Length (mm)
		and the second	1/6 Unit	1/6TYDES1200	1200	24	. 1	2.5	27	64
		DO NOT EAT	1/3 Unit	1/3TYDES700	700	25	1	3.5	27	89
Specifications			1/2 Unit	1/2TYDES550	550	27	1.3	3.125	33	80
		encomparison to the second sec	1 Unit	1TYDES300	300	29	3	4	76	102
Pouch: Print:	Kraft paper or Tyvek plastic Blue ink	ALLER DE CONTRACTOR	1 Unit	1TYDES1300	1300	114	3	4	76	102
Unit sizes:	1/6, 1/3, 1/2, 1, 2, 4, 8, 16		2 Unit	2TYDES150	150	29	3	6	76	152
Media:	montmorillonte clay	and present of the state of the state of the	2 Unit	2TYDES800	800	136	3	6	76	152
Form:	···· ·	MACHINERY TAKE IN MALE AN AND A READ AND AND AND AND AND AND AND AND AND A	4 Unit	4TYDES500	500	163	5	5.5	127	140
		TAT YOR OD	8 Unit	8TYDES300	300	192	5	8	127	203
Packaging:	Air tight pails or drums		16 Unit	16TYDES150	150	189	5.75	10	146	254

	<u>Kraft Pouch</u> (Paper)	Pouch Size	Part Number	Pouches per Container	Container Weight (pounds)	Width (in)	Pou Length (in)	ch Size Width (mm)	Length (mm)	
	and the second state of th	1/6 Unit	1/6KDES1200	1200	24	1	2.5	27	62	
	enversional and the second states and the se	1/3 Unit	1/3KDES700	700	25	1	3.5	27	89	
	ADDRESS CONCERTS PARA	1/2 Unit	1/2KDES550	550	27	3	3	76	76	
	AND	1 Unit	1KDES300	300	29	3	4.125	76	105	
		1 Unit	1KDES1300	1300	114	3	4.125	76	105	
		2 Unit	2KDES150	150	29	5	4.75	127	121	
See SCC Data Sheets for these	SPECIAL PROPERTY OF THE SPECIA	2 Unit	2KDES800	800	136	3	6	152	165	
related items:	And Andrew AND TAXABLE PARTY	4 Unit	4KDES500	500	163	5	5.5	127	127	
Humidity Indicator Cards	ARTICLE (BATS ARTICLE)	8 Unit	8KDES300	300	192	3.75	8.5	95	216	
Moisture Barrier Bags	Construction of the owner of the	16 Unit	16KDES150	150	189	4.75	9.5	121	241	
Vacuum Sealers										
P R	ODUCT	DAT	A S	ΗE	ΕT					
Desiccant in Tyvek Plastic or Kra		3M Electronics Solution 6801 River Place Blvd Austin, TX 78726-9000	A	3M is a trademark of 3M Company. All other trademarks herein are the property of their respective owners.						
PRODUCT ITEM NUMBER DATASHEET DESICCANT, TYVEK OR KRAFT POUCH SEE ABOVE 1110-F			US and Canada: 866-722-3736 Fax: 866-722-3735 Int: 919-718-0000; Fax: 919-774-8174 email: 3Mstaticinfo@mmm.com; www.3M.com/static © 2008					3M		

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 Application: Dry packaging for SMD's.	EIA 583 Application: Dry packaging for SMD's. Allows adjustment of environmental conditions.	MIL-P-116 Application: General dry packaging.				
What You Need Know: Bag Size, Bag MVTR, Storage Time in Months. Formula: Units= 0.304 x Months x Bag MVTR x Bag Area Moisture Capacity Example: 8" x 10" inch Barrier Bag, with a 0.002 MVTR and a 12 month storage time. Find Bag Area: 8" x 10" x 2 sides =160 sqin. Apply Formula: Units= 0.304 x 160 sqin x 0.002 MVTR x 12 months 6.6667 g/unit Units = .2 Use 1/6 unit of Desiccant.	What You Need Know: Bag Area, Bag MVTR, Months of Storage, Maximum Interior Humidity (MIH). Formula: Units= 0.231 x Bag Area x Bag MVTR x Months Moisture Capacity Example: 8" x 10" inch Barrier Bag, with a 0.02 MVTR, a 12 month storage time, and a MIH of 20%. Find Bag Area: 8" x 10" x 2 sides =160 sqin. 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 40% MIH 6.2 g/unit Units= 0.231 x 160 sqin x 0.02 MVTR x 12 months 4.8 g/unit Units = 1.8 units	What You Need Know: Bag Size Formula: Units = 0.011 x Bag Area in square inches. Example: 8" x 10" inch Barrier Bag Find Bag Area: 8" x 10" x 2 sides =160 sqin. Apply Formula: Units = 0.011 x 160 sqin = 1.8 Use 2 Units of desiccant.				
P R O	DUCT DATA SHEE	т				
Desiccant in Tyvek Plastic or Kraft P	aper Pouch ITEM NUMBER DATASHEET J AUXILIAR Sector 2336 3M Electronics Solutions Division 6801 River Place Blvd Austin, TX 78726-9000 US and Canada: 866-722-3736	3M is a trademark of 3M Company. All other trademarks herein are the property of their respective owners.				

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