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.

Standards

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



<u>Tyvek Pouch</u>	Pour	Pouches Container		Container	Pouch Size				
(Plastic)	Size	Part Number	per Container	Weight (pounds)	Width (in)	Length (in)	Width (mm)	Length (mm)	
and a feature of a state of the	1/6 Uni	t 1/6TYDES1200	1200	24	1	2.5	27	64	
DO NOT EAT	1/3 Uni	t 1/3TYDES700	700	25	1	3.5	27	89	
	1/2 Uni	t 1/2TYDES550	550	27	1.3	3.125	33	80	
SECTIVATION THE ADDRESS AND ATTACK & D REACTIVATION THE WINK IN ADDRESS ADDRESS MINISTER CONTENTS TROOMS IN	1 Uni	t 1TYDES300	300	29	3	4	76	102	
DATES AND	1 Uni	t 1TYDES1300	1300	114	3	4	76	102	
	2 Uni	t 2TYDES150	150	29	3	6	76	152	
preparation late drawn treate a p	2 Uni	t 2TYDES800	800	136	3	6	76	152	
REACTIVATION THAT IN SOLUTION AND AND AND AND AND AND AND AND AND AN	4 Uni	t 4TYDES500	500	163	5	5.5	127	140	
DO NOT EAT	8 Uni	t 8TYDES300	300	192	5	8	127	203	
1. (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	16 Uni	t 16TYDES150	150	189	5.75	10	146	254	

	Kr	aft Pouch Pouc		Pouch Bart Namekan		Pouches	Container				
		per)		Size	Part Number	per Container	Weight (pounds)	(in)	Length (in)	Width (mm)	Length (mm)
		and the standard sector in the local sector in the	1	1/6 Unit	1/6KDES1200	1200		1	2.5	27	62
		SUSSIANT AND AND AND		1/3 Unit	1/3KDES700	700	25	1	3.5	27	89
		ALCONTRACTOR OF A CONTRACTOR ACTION	146 C 17 C 17 C 18	1/2 Unit	1/2KDES550	550	27	3	3	76	76
		ACTION OF CONTRACT	1	1 Unit	1KDES300	300	29	3	4.125	76	105
				1 Unit	1KDES1300	1300	114	3	4.125	76	105
			230/01/2	2 Unit	2KDES150	150	29	5	4.75	127	121
See SCC Data Sheets for these		SPECIAL MALE AND	2	2 Unit	2KDES800	800	136	3	6	152	165
related items:		Annal CONTINUE MAN			4KDES500	500	163	5	5.5	127	127
Humidity Indicator Cards		AREAD THE AREAD AND A AREAD AND AND A AREAD AND A AREA			8KDES300	300	192	3.75		95	216
Moisture Barrier Bags	15		Address of the second	16 Unit	16KDES150	150	189	4.75	9.5	121	241
Vacuum Sealers											
F	ROD	И С Т	D	A T	A S	ΗE	ΕT				
Desiccant in Tyvek Plastic or Kraft Paper Pouch					3M Electronics Solutions Division 6801 River Place Blvd Austin, TX 78726-9000			3M is a trademark of 3M Company. All other trademarks herein are the property of their respective owners.			
PRODUCT DESICCANT, TYVEK OR KRAFT POU	СН	ITEM NUMBER SEE ABOVE	<u>datasheet</u> 1110-f		US and Canada: 866-7 Fax: 866-722-3735 Intl: 919-718-0000; Fax email: 3Mstaticinfo@m	22-3736 <: 919-774-8174	M.com/static	© 2008			BM

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. 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.	EIA 583 Application: Dry packaging for SMD's. Allows adjustment of environmental conditions. 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 Apply Formula: Units= 0.231 x 160 sqin x 0.02 MVTR x 12 months 4.8 g/unit Units = 1.8 units	MIL-P-116Application: General dry packaging.What You Need Know: Bag SizeFormula: Units = 0.011 x Bag Area in square inches.Example: 8" x 10" inch Barrier BagFind Bag Area: 8" x 10" x 2 sides =160 sqin.Apply Formula: Units = 0.011 x 160 sqin = 1.8Use 2 Units of desiccant.				
PRODUCT DATA SHEET						
Desiccant in Tyvek Plastic or Kraft Pa PRODUCT DESICCANT, TYVEK OR KRAFT POUCH	ITEM NUMBER DATASHEET US and Canada: 866-722-3736 Fax: 866-722-3735 Fax: 866-722-3735 Intl: 919-718-0000; Fax: 919-774-8174 email: 3Mstaticinfo@mmm.com; www.3M.com	3M is a trademark of 3M Company. All other trademarks herein are the property of their respective owners.				