a unique packaging company with unique packaging solutions.

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DESI PAK®

Typical Applications

Electronic Components Packaging Machine Parts Military Instruments and Armanents Pharmaceuticals Motors Circuit Boards Relays and Communication Devices Oceanographic Devices Documents and Paper Storage Instruments Photographic Equipment & Film Binoculars Foodstuffs **Batteries** Vitamins Optical Devices Dry Fuel Propellants Safes Medical Equipment

DESI PAK® Clay Analysis

Museum Storage

Diagnostics Candy

Bulk density: 62.00 lbs./cu.ft.

Particle size:	12.50 mm	0.0%
	0.18-12.5 mm	99.9%
	0.18 mm	0.1%

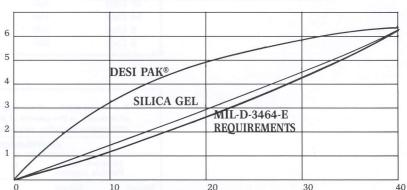
Chemical Composition:

$SiO_2 \dots 65.7\%$	MnO 0.1%
$Al_2O_317.3\%$	MgO 3.6%
$TiO_20.3\%$	CaO 3.2%
$Fe_2O_3\ldots 2.8\%$	$K_2O \dots 0.3\%$

DESI PAK® unit bags exceed the requirements of Mil-D-3464E in actual performance and will exceed the moisture vapour adsorption of silica gel at government specification levels. The performance characteristic of DESI PAK® is indicated on the chart below, showing the amount of moisture vapour adsorbed at various humidity levels.

The DESI PAK® performance curve exceeds both military specifications, which is the industry standard, and the silica gel performance curve for these same specifications. At 20% relative humidity, DESI PAK® will adsorb 50% more moisture than required by Mil-D-3464E, whereas silica gel will only adsorb 3.5% more moisture than required by Mil-D-3464E.

PERFORMANCE CHARACTERISTICS GRAPH



PERCENT RELATIVE HUMIDITY AT 25° C (77° F)

DESI PAK® meets Method II packaging standards described in Mil-P-116E, which covers the basic requirements of military packaging methods of preservation. This involves packaging an item inside a sealed waterproof and moisture vapourproof container with the inclusion of a desiccant to prevent rust, mildew or corrosion damage. In method II packaging, the package is maintained at a safe humidity below 40% RH during the normal storage period of 18 months to 2 years.

No matter how much care is exercised in producing a desiccant, it is only effective when it is active. Each pail or drum of DESI PAK® contains a humidity indicator card to insure that the desiccant is active when received and opened. To insure that the desiccant remains active, it is essential that the lid be tightly resealed on its container.

Requirements chart (See over)

IMPORTANT NOTICE TO PURCHASER: Because we cannot anticipate or control the many different conditions under which the information and our products may be used, no warranty, expressed or implied, is made.

DESI PAK®

		CONTAINER	R DATA	
Bag Size	Bags Per Container	Gross Ship Wt. Container Lbs.	Type*	Bag Dimensions Width-Length-Thicknes
	I	DRUMS - HEAT SE	ALED BAGS	
16 Unit	150	189	I & II	5 3/4 × 10 × 1 1/2
8 Unit	300	192	I & II	$5 \times 8 \times 1 1/8$
4 Unit	500	163	I & II	$5 \times 6 \times 1/2$
2 Unit	800	136	I & II	$5 \times 4 3/4 \times 3/8$
1 Unit	1300	114	I & II	$5 \times 3 \ 1/2 \times 1/4$
123	STI	EEL PAILS - HEAT	SEALED BAC	GS
2 Unit	150	29	I & II	$5 \times 4 \ 3/4 \times 3/8$
1 Unit	300	29	I & II	$5 \times 3 1/2 \times 1/4$
1/2 Unit	550	27	I & II	$3 \times 3 1/2 \times 1/4$
1/3 Unit	700	25	I & II	$3 \times 3 1/4 \times 3/16$
1/6 Unit	1200	24	I & II	$3 \times 3 \times 1/8$
Speciality	DRUMS	S – STRING SEWN	BAGS WITH	H TIES
80 Unit	30	188	I	8 3/4 × 12 1/2 × 2 1/4
16 Unit	150	190	I	$5 \ 3/4 \times 10 \times 1 \ 1/2$
16 Unit	150	191	II	$5 \ 3/4 \times 10 \times 1 \ 1/2$
8 Unit	300	180	I	$5 \times 8 \times 1 \ 1/8$
8 Unit	300	180	II	$5 \times 8 \times 1 \ 1/8$

REQUIREMENTS CHART

Desiccant is sold in unit size bags according to Mil-D-3464E. A unit, which is approximately one ounce of desiccant, is the amount of desiccant which will adsorb at least 3 grams of moisture vapour at 20% relative humidity, and at least 6 grams of moisture vapour at 40% relative humidity at 25° C.

CONTAINER SIZE - DESICCANT REQUIREMENT					
	ture Sealed ble Barriers	Sealed Barrier Coated Fiber Drums or Rigid Metal Containers			
Square Feet	Square Inches	Gallons	Cubic Feet	Cubic Inches	Units DESI PAK® Required
0.1	15	1.1	0.14	237	1/6
0.2	30	2.1	0.28	476	1/3
0.3	45	3.2	0.42	714	1/2
0.6	90	6.2	0.83	1,428	1
1.3	180	12.5	1.67	2,856	2
1.9	270	18.7	2.50	4,284	3
2.5	360	25.0	3.33	5,712	4
3.1	450	31.2	4.16	7,140	5
3.8	540	37.4	5.00	8,568	6
4.4	630	43.6	5.83	9,996	7
5.0	720	50.0	6.66	11,424	8
5.6	810	56.1	7.50	12,852	9
6.3	900	62.3	8.33	14,280	10
7.5	1,080	74.8	10.00	17,136	12
8.8	1,260	87.3	11.66	19,992	14
10.0	1,440	99.7	13.32	22,850	16
20.0	2,880	199.4	26.64	45,700	32
50.0	7,200	498.5	66.65	114,250	80
100.0	14,400	997.0	133.30	228,500	160
120.0	18,000	1240.0	166.00	285,600	200
150.0	22,500	1550.0	207.00	357,000	250

DUNNAGE (Interior Packing, Cushioning, Blocking and Bracing Material)

115	UNITS OF	7-274		
Weight of Dunnage	Cellulose And Wood Hairfelt and Misc.	Bound Fibers	Glass Fibers	Synthetic Foams and Rubber
1 ounce	1/3	1/3	1/6	1/6
2 ounce	1	1/2	1/3	1/6
4 ounce	2	1	1/2	1/3
8 ounce	4	2	1	1/3
12 ounce	6	3	2	1/2
1 pound	8	4	2	1/2
2 pound	16	8	4	1
5 pound	40	18	10	3
10 pound	80	36	20	5