

# Desiccant Requirements Chart

## Rigid and Flexible Barriers

### Rigid Barrier:

Moisture impervious containers made from metal, plastic, glass or combinations of different materials.

### Flexible Barrier:

Laminated packaging materials constructed to prevent water and water vapor from penetrating through the combined layers.

#### Instructions:

To determine the amount of Desi Pak® or Sorb-It® desiccants, select the **VOLUME** or **AREA** of the barrier material. Read **UNITS REQUIRED**.

Rigid Barrier			Flexible Barrier		Units Required Desi Pak® or Sorb-It®
VOLUME			AREA		
CU. IN.	CU. FT.	GAL.	SQ. IN.	SQ. FT.	
237	0.14	1.1	15	0.1	1/6
476	0.28	2.1	30	0.2	1/3
715	0.42	3.2	45	0.3	1/2
1,429	0.83	6.2	90	0.6	1
2,857	1.67	12.5	180	1.3	2
4,286	2.50	18.7	270	1.9	3
5,714	3.33	25.0	360	2.5	4
7,143	4.17	31.2	450	3.1	5
8,571	5.00	37.4	540	3.8	6
10,000	5.83	43.6	630	4.4	7
11,423	6.67	50.0	720	5.0	8
12,857	7.50	56.1	810	5.6	9
14,286	8.33	62.3	900	6.3	10
17,143	10.00	74.8	1,080	7.5	12
20,000	11.67	87.3	1,260	8.8	14
22,857	13.33	99.7	1,440	10.0	16
28,571	16.67	125	1,800	12.5	20
42,857	25.00	187	2,700	18.8	30
57,143	33.33	249	3,600	25.0	40
71,429	41.67		4,500	31.3	50
85,714	50.00		5,400	37.5	60
100,000	58.30		6,300	43.8	70
114,286	66.67		7,200	50.0	80

**Desi Pak®:** Packaged aluminosilicate clay desiccant. Free flowing granular material with high moisture adsorbing ability from 20-80% Relative Humidity. Under normal packaging and storage conditions.

**Sorb-It®:** Packaged silica gel made from amorphous silicate. It is a hard, translucent material with an extremely high capacity for moisture at temperatures below 75°F and humidity levels above 40%.

Note: **Desi Pak®** and **Sorb-It®** packaged desiccants by Süd-Chemie Performance Packaging are qualified under Mil-D-3464 Type I & II for use in Method II packaging Mil-P-116. (Certificate of Compliance furnished upon request)

The amount of desiccant/adsorbent required will depend upon the chemical characteristics of the product as well as the volume contents and physical properties of the container. We recommend a stability study be performed to determine exact amount required. Samples available upon request.

### Dunnage Compensation:

Dunnage: Packaging material used as padding or bracing to protect product from damage during shipping. This material will give off moisture while in the packaging.

#### Instructions:

Read additional UNITS REQUIRED by type to compensate for dunnage

Wood and Cellulose Products	Synthetic Foams and Rubber	Units Required Desi Pak® or Sorb-It®
<b>Weight of Dunnage</b>		
9.5 gms.	5.3 oz.	1/6
18.9 gms.	10.7 oz.	1/3
1 oz.	1 lb.	1/2
2 oz.	2 lbs.	1
4 oz.	4 lbs.	2
6 oz.	6 lbs.	3
8 oz.	8 lbs.	4
10 oz.	10 lbs.	5
12 oz.	12 lbs.	6
14 oz.	14 lbs.	7
1 lb.	16 lbs.	8
1.1 lbs.	18 lbs.	9
1.3 lbs.	20 lbs.	10
1.5 lbs.	24 lbs.	12
1.8 lbs.	28 lbs.	14
2.0 lbs.	32 lbs.	16
2.5 lbs.	40 lbs.	20
3.8 lbs.	60 lbs.	30
5.0 lbs.	80 lbs.	40
6.3 lbs.	100 lbs.	50
7.5 lbs.	120 lbs.	60
8.8 lbs.	140 lbs.	70
10. lbs.	160 lbs.	80

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