

## DESICCANTS

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91103

PRODUCT:

# DESICCANTS

THE BASICS:

- Silica Gel Desiccants are a highly activated adsorbent available in a wide range of mesh sizes and package sizes to provide moisture adsorption in a variety of applications within the telecommunications and power industries.
- Desiccants protect all types of articles from deterioration, rust, corrosion, mold, mildew and other damage caused by moisture or high humidity. Silica Gel Desiccants have a very strong affinity for water & will adsorb it in preference to most other substances. It is also a good adsorbent for HC1, gasoline-range hydrocarbons, CO<sub>2</sub>, C<sub>12</sub>, sulfur and nitrogen compounds, aromatics and many others.
- Silica Gel Desiccants may be used for flood restoration as well as day-to-day operations. Packages are available in bulk, small bags or an indicating reusable container depending on the application. Available in 23.5 gram or 4 oz bags or 40 gram reusable containers.
- Simply place the bulk or packaged Desiccant in the equipment to be protected and it will actively desiccate the surrounding air and keep it that way to protect against moisture damage. The bulk Desiccant may be vacuumed or left indefinitely. The packaged Desiccant (bag or container) may be removed when no moisture is present or when the bag or container has met its volume capacity.
- The indicating Desiccant may turn colors to alert capacity. Re-heat, <140 degrees C (<280 Degrees F) to restore desiccating properties. May be re-generated many times (up to 10), although some small losses in desiccating properties will occur.
- Bulk Silica Gel Desiccant has a high crush-strength and high-porosity. It remains dry and free-flowing even when saturated. Silica Gel Desiccants are chemically inert, non-corrosive and non-toxic as well as odorless. It does not form any by-products and has an extremely large internal surface area which means **it can adsorb up to 35% of its weight at 80% relative humidity.** Bulk Silica Gel Desiccants have a relatively high capacity for moisture at temperatures near 25 degrees C (77 degrees F) with relative humidity above 40%, which makes Silica Gel the preferred Desiccant for high relative humidity applications.

PRODUCT  
IMAGE:



**TECHNICAL HIGHLIGHTS:**

Standard Desiccant sizing table for a rigid enclosure:

VOLUME IN GALLONS	VOLUME IN CUBIC FEET	VOLUME IN CUBIC INCHES	UNITS REQUIRED
1.1	.14	237	"1/6"
2.1	.28	476	"1/3"
3.2	.42	714	"1/2"
6.2	.83	1,428	1
12.5	1.67	2,856	2
18.7	2.5	4,284	3
25	3.33	5,712	4
31.2	4.16	7,140	5
37.4	5	8,568	6
43.6	5.83	9,996	7
50	6.66	11,424	8
56.1	7.5	12,852	9
62.3	8.33	14,280	10
74.8	10	17,136	12
87.3	11.66	19,992	14
99.7	13.32	22,850	16
199.4	26.64	45,700	32
498.5	66.65	114,250	80
997	133.3	228,500	160
1,240	166	285,500	200
1,550	207	357,000	250

\* A unit is 28 grams for silica gel, 33 grams for calcium gel, and 28 grams for molecular sieve it also equals 1 ounce.

Figure 2: Equilibrium capacity (H<sub>2</sub>O) of various adsorbents.

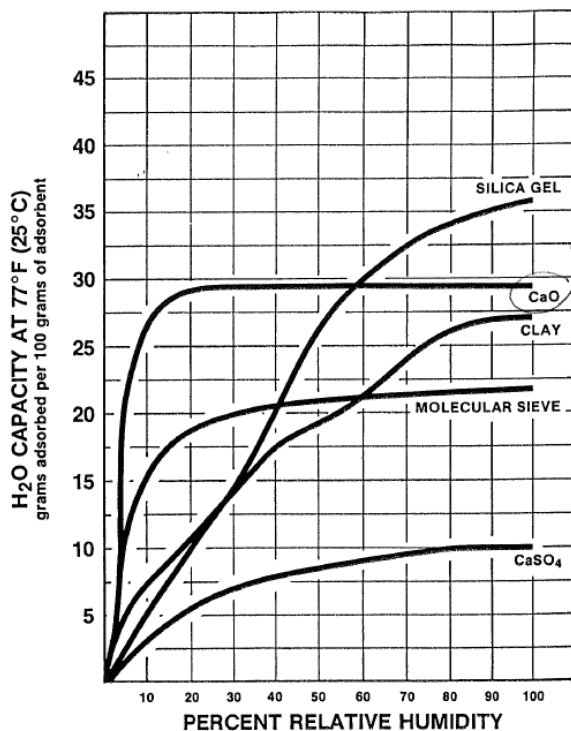


Figure 3: Equilibrium H<sub>2</sub>O capacity.

(P H<sub>2</sub>O = 0.407 in. Hg)

**MATERIAL SAFETY DATA SHEET:**

This product is only for sale to and for use by trained service personnel. MSDS available on request.

**PACKAGING:**

PRODUCT NUMBER	CONTAINER SIZE	UNITS/CASE	CASE WEIGHT	CASE SIZE L x W x H
79350	40 gram Container	24	5 lbs	10.5" x 6" x 5"
79352	5 lb Can	4	20 lbs	13.5" x 8" x 13"
79355	5 lb Can	6	31 lbs	24" x 6" x 16"
79356	325 gram Pack	12	10 lbs	N/A
79358	4 ounce Bag	10/Can	15 lbs	14" x 14" x 8.5"
79360	650 gram Bottle	12	20 lbs	14" x 7" x 8.5"
79403	23.5 gram Bag	40/Can	12 lbs	N/A
79404	160 gram Bottle	12	6.7 lbs	11" x 8.25" x 6"
91103	1.75 lb Can	1	2 lbs	7" x 7" x 9"

**ANSWERS TO YOUR QUESTIONS:**

Do you have a question about any Rainbow Technology product? Because we've been supplying the utility and telecommunications industries since 1971, our technical support team has the expertise to provide answers and solutions. Just call us at **1.800.637.6047**.

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