



Multiform CSF[®] Desiccant Canisters

Benefits Versus Traditional Canisters

Durable moisture adsorbing desiccant canisters with a compact design.

WHAT EXACTLY IS CSF?

These extremely durable, moisture adsorbing canisters are, designed to control moisture levels within a sealed environment, by actively drawing moisture from the air. Available in a variety of sizes, with your choice of sorbent (silica gel, indicating silica gel, activated carbon, and IntelliSorb[®]).

Unlike traditional canisters that are filled with loose desiccant, they utilize a unique compressed solid-form design for the desiccant which is laser printed and has been coated with pharmaceutical grade HPMC coating for non-dusting and have non-separating properties.

The Multiform Coated Solid Form (CSF) offers a compact sorbent material that can provide equivalent adsorption capacity but adsorbs twice as fast compared to as a similarly sized conventional canisters.



Available in different sizes



46% Smaller vs Conventional Canisters
1g CSF vs 1g Traditional Canister

Sustainability Benefits

- 66-85% reduction in plastic material, dependent on canister size, compared to traditional canisters.
- Reduced carbon footprint due to their compact size and lower gross weight of the product, reducing the number of pallets being shipped to the customer for equivalent number of desiccant pieces, leading to a decrease in freight carrier vehicles, fuel, and overall cost of shipping..
- These sustainability numbers do not include the decrease in plastic consumption for pails utilized as primary packaging of the sorbents (Multisorb uses foil pouches and cartons). That would be an additional plastic reduction.

Multisorb's Multiform CSF	Competitive Canister	Plastic Saved / 1 million pieces	Plastic Saved / 10 million pieces
1 g. Multiform CSF	1 g. Canister	731	7,307
1.5 g. Multiform CSF	1 g. Canister	566	5,656
2 g. Multiform CSF	2 g. Canister	1,030	10,299
3 g. Multiform CSF	3 g. Canister	1,355	13,550

UNIT OF MEASUREMENT FOR PLASTIC SAVED (KG)

Product Applications

Pharmaceuticals | In-Vitro Diagnostics | Medical | Devices | Dietary Supplements
Electronic Equipment | Optical Instruments



Formats

Canisters

Product Category

Healthcare, Nutraceuticals

SEO Terms

Desiccant, Moisture Adsorption, Packaging Stabilizer, Moisture Stabilizer

Multiform CSF[®] Coated Solid Form Sorbent

UNIT VOL.	SKU	DESCRIPTION	CASE COUNT (units/case)	CASE/PALLETS (USA)
0.8 g.	02-02924AG03	Silica Gel	10,000	36
1 g.	02-03191BG04	Silica Gel	9,000	36
1 g.	02-03192BG01	60% Silica Gel, 40% Activated Carbon	6,000	36
1 g.	DSR6410A	Activated Carbon	9,000	36
1.5 g.	02-03191BG01	Silica Gel	6,000	36
1.75 g.	DSR6410G	Activated Carbon	4,000	36
2 g.	02-03191BG02	Silica Gel	4,000	36
2 g.	02-03192BG02	60% Silica Gel, 40% Activated Carbon	4,000	36
3 g.	02-03191BG03	Silica Gel	3,000	36

Statement of Equivalency, Multiform CSF® and Loose-Fill Canisters

Multisorb has performed a comparative study to evaluate the performance of Multiform CSF® 1 gram silica gel desiccant cylinder to a traditional loose-fill canister, such as Multisorb's 1 gram SorbiCap® silica gel canister. The testing was performed to support utilization of the Multiform CSF as a direct replacement for loose fill silica gel canisters supplied by Multisorb and other canister manufacturers.

A comparison of the products are provided below.

Product	Multiform CSF®	Loose Fill Canister
Materials of construction	Silica gel LDPE binder HPMC coating	Silica gel HDPE
Sorbent Weight	1 gram	1 gram
Printing	Laser printed	Multisorb: Ink / clear coat Competitor: with or without paper label, ink, or laser printed
Minimum Absorption Capacity ⁽¹⁾	19% @ 25°C / 40% RH 27% @ 25°C / 80% RH	19% @ 25°C / 40% RH 27% @ 25°C / 80% RH
Moisture content, Loss on Drying	4%	3%
Plastics content (approximate)	0.13g	0.86g

- Minimum adsorption capacity conforms to USP<670> for desiccant content. Please refer to product technical data specification sheet for more information regarding absolute adsorption capacity.
- Total moisture content includes gel, binder, and HDPE coating as determined by loss on drying method (150°C / 3 hours). Moisture content of silica gel prior to incorporation is less than 2%. Reference USP<670> regarding desiccants notable to be separated.

Based on the comparative testing, Multiform CSF desiccant cylinder provides equivalent performance to a traditional loose fill canister.





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