



Dura-Life™ Filter Bags

Handle Moisture in Glassmaking

INDUSTRY: Glassmaking – bottles.

PROBLEM: Heavy dust-loading & moisture caused soda ash to harden and plug filters prematurely.

SOLUTION: Donaldson Torit Dura-Life filter bags have maintained low ΔP for 2 years.

Glass manufacturing is a particularly challenging application for dust collection, because any moisture can turn the soda ash & silica into a cement-like coating on the filter bags—quickly plugging them up.

One leading U.S. manufacturer of glass containers for the food and beverage industries knows all about these challenges. Their soda ash was housed in 100-ft outdoor silos with Flex-Kleen dust collectors—but the bags in the collectors were “cemented up solid” with hardened soda ash from continual moisture contamination. After spending close to a million dollars trying to fix their existing system, this customer finally gave Donaldson® Torit® a try.

Donaldson Torit Dalamatic® Insertable (DLMV) dust collectors with Dura-Life™ filter bags were installed on top of each soda ash silo. The DLMV collector is an excellent bin vent because it has no housing; rather, it is mounted in existing ductwork or silos. This de-centralized methodology means dust is collected at the point of generation, instead of ducted to a central place.

Soda ash is very hygroscopic (moisture absorptive), but the surface-loading characteristics of Dura-Life filter media enable prompt pulse-cleaning before the ash can harden up.

The collectors ran 24/7 since the installation of Dura-Life filter bags. Even after 8700+ hours of continuous operation, the average pressure drop still ran between 2 and 4 "wg. After almost 2 years in operation, the same Dura-Life filters were still going strong! ☉

Project Statistics

Dust	Soda Ash
Application	Glass Manufacturing
Collector	Donaldson Torit Dalamatic Insertable Collectors (DLMV)
Loading	Heavy, hygroscopic
Duty Cycle	24 hrs/ 7 days per week
Current ΔP	2 - 4 "wg

Dalamatic Insertable dust collector (DLMV) with envelope-style Dura-Life filter bags



Dura-Life bags are made with Durapex® media manufactured by Polymer Group, Inc.

11_Dura-Life_SodaAsh

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