

TIVAR® 88-2 ESD Polymer Liners for Improving the Flow of FGD Gypsum

Flue Gas Desulfurization gypsum (FGD gypsum) is a bulk material capable of developing a negative angle of repose. FGD gypsum can be characterized as an extremely cohesive bulk material that can adhere to vertical surfaces, building-up on small ledges, box corners, shallow angle plate work and minor surface protrusions or interruptions.



FGD gypsum discharge chute fabricated from TIVAR 88-2 ESD material, complete with flanges and stiffeners.

As a result of its cohesive strength FGD can plug-off transfer points and chutes within seconds, making the conveyance of this bulk material extremely challenging. The geometric construction of transfer chutes and hoppers that convey FGD gypsum is an important element of effective design. Geometry that incorporates shallow wall angles, box corners, valley angles, square and rectangular shapes with high friction surfaces materials is a major contributor to issues such as plugging, bridging, arching and loss flow.

TIVAR® 88-2 ESD liners are excellent choice for addressing the flow problems associated with conveying FGD gypsum. TIVAR® 88-2 liners offer a low coefficient of friction non-stick surface which significantly reduces the ability of FGD gypsum to stick and build-up on the interior surfaces of hoppers, flop gates, diverters, transfer housings, chutes, belt cleaners, and return idlers. TIVAR 88-2 ESD is also corrosion resistant and chemically inert, which eliminates problems with excessive steel rust and corrosion.

By taking advantage of the flexibility of TIVAR® 88-2 liners Lawrence Industries offers pre-fabricated liner kits, fabricated drop-in inserts or complete polymer chutes and hoppers. These design options serve to improve the reliable flow and discharge of FGD gypsum by using round and radius surfaces with welded seams and minimal surfaces penetrations.



Lawrence Industries, Inc. has been in business for thirteen years providing solutions for a variety of industries. Headquartered in Fort Wayne Indiana our staff has over 30 years of bulk material handling experience. We are a privately held company that believes in working with each customer to provide the best solution possible based on application specific needs. Lawrence Industries, Inc. is focused on providing solutions to problems associated with bulk material flow, wear & corrosion. Our solutions include a variety of material technologies offered in products, fabricated parts, machined parts, lining systems and installation services. You can contact Lawrence Industries by phone at (260) 432-9693 or e-mail kmcatee@lawrenceindustriesnow.com

FGD discharge chute fabricated from TIVAR 88-2 ESD with upper steel mounting flange.



FGD transfer chute hopper fabricated from TIVAR 88-2 ESD material with steel support frame.