

Silica Flour Packing in Saudi Arabia

High speed Big Bag filling for Adwan Chemical industries Co Ltd



High speed Big Bag filling for silica flour

Adwan Chemical Industries Co. Ltd (ACIC) belongs to the Adwan group of companies within the inorganic chemicals manufacturing complex based in Second Industrial City, Riyadh. ACIC fully exploits two of Saudi Arabia's vast natural resources, oil energy and high quality white silica sand to produce various grades of industrial silica sand, silica flour and silicates.

Adwan produce silica sand in four different grades for use in: glazing in ceramic industry, cementing in oil wells, filler in paint industries, powder coat & marine paints, filler for plastics and fibre optics, construction chemicals

By installing a new packing line not only have ACIC been able to make the most of these natural resources, but have emerged as a reputed supplier of Inorganic chemicals in Saudi Arabia and abroad.



Bags being filled on the IBC-PF4 and being transported along the conveyor

The machine installed was a Webster Griffin IBC-PF4 complete with vibration table to consolidate the powder – this was needed as the flour is free-flowing, empty pallet magazine to stack the pallets, accumulating conveyors for 5 stacked pallets and a control panel.

PE coated woven polypropylene bags with four support loops and central filling spout were used to fill 15-16 x 1000kg bags/hour. The product is weighed using an Avery Berkel weighing system to weigh and fill fine, free flowing product into the bags – this product comes from Adwans' storage silo via a single screw feeder conveyor and slide valve supplied by Webster Griffin.



This order was placed after Adwan Industries High speed big bag filling system for Silica Flour had been a success using a Webster Griffin IBC-PF3 big bag filling machine. This had been used since 1993 for packing silica sand & sodium sulphate glass. An order was also placed for a Webster Griffin Universal Air Packer for silica sand, packing at a rate of 2-3 bags/minute on 14-50kg valve sacks.



Mr Yahya, Plant Manager outside the Adwan Factory



Protective masks, goggles and suits are worn to ensure the silica flour is not inhaled.

The platform based filling machine is raised during the filling cycle. The carriage is then lowered at the end of the filling cycle to release the tension on the bag loops enabling the filled bag to be discharged from the machine; the carriage is then raised allowing the filled bags to exit the machine. (See top photo).

The bags finally conveyed to a warehouse where they stacked and ready for transportation, throughout Saudi Arabia and abroad.

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