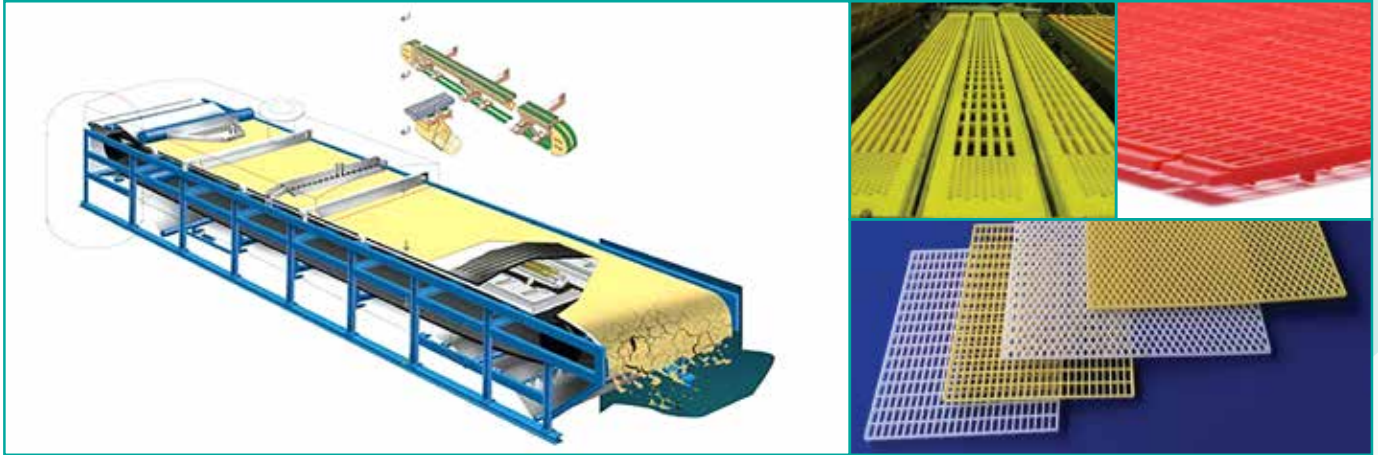




CHEMICAL INDUSTRIES

Our customers experiences have shown that UHMWPE Ultra High Molecular Weight Poly-Ethylene is an ideal choice & one of the best alternative to PTFE /PVDF & PP materials as the components made form UHMWPE & its different grades has given promising results in the field of FILTERATION , PROCESS, ETP & other critical areas of chemical industries. Some of the components manufactured for different applications have been shown below & still more results could be expected if applied in different areas.



FERTILIZER, MINES & MINERAL ORE PLANTS

FILTRATION AREA

BELT FILTERS : This is a continuous vacuum filter operating on a horizontal plane & slurries are feeded on the surface & both gravity and vacuum is applied for rapid separation of liquids & solids hence here the components used in this system has helped .

- (1) To increase life of spares.
- (2) Solved corrosion problem .
- (3) Reduced its wear& Lubrication problem Hence it had directly reduced its DOWN TIME which is very difficult for a continuous process.

- **FILTER PRESS :** The components manufactured from UHMWPE has solved slurry problems & increased the life it has also helped in replacing SS /M.SRL/PP Components.

- **NUTCHE FILTER :** The plates are made to customised sizes and give excellent result even in full vacuum (i.e. - It does not bend as it has good mechanical strength)

- **DRUM FILTER :** The component made form this has helped in increasing the wear life of wear plate and it is being manufactured from special grade of UHMWPE.

AGITATOR DISC FILTER

PROCESS AREA

- **STEAM SPARGERS :** This is used for transferring, of steam into the agitating liquids.

NOZZLES : This has helped in solving problems to corrosion & frequent replacement of parts especially in filter presses.



PAINTS & INK INDUSTRIES

Sand-milling is a proven, practical, continuous and high production method of dispersing & milling particles in liquid to produce smooth, uniform and finely dispersed products. One good example of this unit operation is the disbursement of pigment agglomerates in paints. This operation is also applicable in a wide variety of process : inks, dyestuffs, paper coatings, chemicals, magnetic tape coatings, insecticides & similar where milling of a high degree of fineness is required. The most critical part of the sand mill is ROTOR DISC or IMPELLER. This part is usually made of an specially hardend metal alloy to enhance wear-ability. In this operation rotor disc gradually wears making it thinner and thinner until! the outer rim or periphery of the disc wears to knife edge.

It's usable life varies between 4 to 8 months depending upon the grinding material used and other conditions.



We have replaced these metal alloy rotor discs by 'POLYSTEEL' rotor discs. User's trial have shown an extended life by 200-300%

Additional benefits by the use of POLYSTEEL® discs includes:

- Increase in life of impeller.
- Lower power consumption (Saving in Power)
- Lower down time
- Wider chemical applicability
- Lighter in weight hence easy to assemble
- Increase in production efficiency



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