



# BoHiBar Drum Filter

## Steam Pressure Filtration of High-Quality Pearlescent Pigments

The BoHiBar drum filter is equipped with exchangeable filter cells and is designed for steam pressure filtration. It is operated to filter, wash and dewater fine-grained ( $x_{50} < 5 \mu\text{m}$ ) high quality inorganic pigments that are manufactured to different specifications and must all be filtered on the same filter unit.

The BoHiBar drum filter achieves a cake moisture of  $< 20\%$  while parallel running conventional pressure filters achieve a moisture content of  $30\text{--}35\%$ . This means a water reduction by steam pressure filtration of  $280 \text{ kg}$  per  $\text{t}$  solids or more than  $2 \text{ kg}$  water per  $1 \text{ kg}$  steam applied which means a serious reduction in energy costs.

The BoHiBar drum filter can be quickly prepared for a product change thanks to exchangeable filter cells which allow an unparalleled quick re-clothing, an automatically opening pressure vessel and excellent accessibility. This results in significantly reduced personnel costs for maintenance and cleaning.

## BoHiBar Drum Filter S4 with exchangeable filter cells

Units installed		2
Filter area per unit	[ m <sup>2</sup> ]	4
Material of construction		1.4571
Power of filter drive	[ kW ]	0.25
Year of commissioning		2003 (unit 1), 2009 (unit 2)

## Process and Operation Data

Solids content in filtrate	[ wt.-% ]	free of particles
Cake moisture	[ wt.-% ]	< 20
Steam per ton solids	[ kg/t ]	30 - 50
Operation pressure	[ bar (g) ]	3.5
Time for change of filter cloth	[ h ]	1-2

## Product Data

Product		High-quality pearlescent pigments
Medium particle size	[ μm ]	< 5
Temperature	[ °C ]	80

