Questionnaire for belt vacuum filter

Please fill out this questionnaire and send it to us at office@npo.by

Customer:

Company:	
The contact person:	
Address:	
Tel.:	
Fax:	
E-mail:	
Project name:	
Date:	
Signature:	

Operating principle
A vacuum belt filter is used to remove the liquid phase from a suspension. The filtration process occurs under the influence of a pressure difference on both sides of the filter membrane. The pressure difference in the belt vacuum filter is created by air rarefaction. The liquid phase passes through the pores of the partition and is collected in the form of a filtrate, and the solid phase is retained on the surface in the form of sediment.

Iformation about the filter:					
Application of the filter (brief description of the process):					
Filter area*, m^2		Number of filters, pcs.			
Output*	by suspension	m^3/h		kg/h	
	by sediment	m^3/h		kg/h	
	by filtrate	m^3/h		kg/h	
Method for creating differential pressure	☐ vacuum ☐ overpressure ☐ hydrostatic pressure			Insert the value, kPa	
Sealing required		Separation of filtrate and washing liquid are required			

Used after filtering		☐ filtrate		☐ sediment	
Records about the filter baffle*					
Customized vacuum system for filter				☐ да	☐ нет
Information about the separated product (suspension), sediment and filtrate:					
Name of suspension:					
Chemical composition of the solid phase, mass fractions, %					
Chemical composition of the liquid phase, mass fractions, %					
Solid content in suspension		gr/l		mass.%	
Suspension density, kg/m³		Suspension temperature, ^{0}C			
Solid phase density, kg/m³		Liquid phase density, kg/m^3			
Chemical activity of the liquid phase, pH		Viscosity of the liquid phase, Pa·s			
Character of the solid phase of the suspension:	☐ crystalline ☐ amorphous	☐ fibrous ☐ colloidal	☐ with colloidal inclusions		
Granulometric composition of the solid phase	mm %	mm %	mm %	mm %	mm %	mm %
Solid content in the filtrate, gr/l, no more					
Residual moisture of sediment, %, no more					
Sludge washing required				☐ yes	☐ no
If sludge washing is required:					
- name of washing liquid					
- washing liquid consumption, l/t					
- Is separation of the filtrate and washing liquid required?				☐ yes	☐ no

Data marked with an asterisk (*) is subject to laboratory testing of product filtration.

Special requirements for the design of the vacuum filter:	
Recommended material of parts in contact with the working environment	
Dimensions limitation, L×W×H, mm, no more	

Weight limit, kg, no more	
Category of production premises	
Fire and explosion hazard group of the product, GOST 12.1.011-78	
Toxicity class of emitted vapors (dust), GOST 12.1.007-76	

Process control may include:		
Adjusting the power consumption of the vacuum belt filter	☐ yes	☐ no
Cake layer height control	☐ yes	☐ no
Availability of a moisture meter	☐ yes	☐ no
Adjusting the speed of the vacuum filter belt using a frequency converter	☐ yes	☐ no

Additional data: