

KELLY FILTER QUESTIONNAIRE

Let us help you make the best filter selection and help you get the most out of your filters. We can help you complete the following questionnaire and explain the importance of these parameters to your operation. Please don't hesitate to email us at info@advancetex.net

COMPANY:	
CONTACT:	
PLANT:	LOCATION:
DATE:	

FILTER – PHYSICAL & OPERATIONAL DATA
Type of filter: (eg: Kelly vertical/horizontal, Diastar, etc)
Number of Frames per vessel: (include frame drawings if available)
Number and size of filter vessels: (eg: 20 kellys, each with a 20kL volume and 300m ² of filter area)
Filter aid used: (eg. Yes, TCA dosed into settler overflow at 100g of TCA / L of feed liquor)
Filter aid purchased or manufactured: (If manufactured, method of manufacture. If purchased, specification on size and quality)

To place an order or learn more about filter media or filter bag design, please contact us at....

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Pre-coated used: (eg: Yes, 5.0kL of tricalcium aluminate used in each filter at start up)

Liquor temperature in filter (eg: 100°C)

Header pressure and filter pressure: (eg: 350kPa and 300kPa respectively)

Settler overflow solids concentration: (eg: average 50mg/L, range 20 to 150 mg/L)

Caustic soda in process and cleaning liquor: (eg: 250g/L process and 350g/L cleaning)

Frequency and duration of Caustic Cleaning:

Process control parameters: (eg: flow control at 400kL/hr per filter followed by header pressure control, or, header pressure control only)

Filtrate solids current average and target: (eg: 10mg/L currently, with a 5mg/L target)

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Typical filtration cycle: (eg: 5 hours filtration, 30 minutes hosing, 2 hour caustic wash twice a week)

Typical filter bag life: (eg: 1000 hours of filtration)

Typical reason for changing filter bags: (eg: scaling, or holing, or stretching, or operational hours set to 1000 hours)

Importance of filter cleaning and cake release: (eg: cake releases adequately, or cake sticks and requires extensive hosing, or cake drops off too easily and blocks the hopper)

Structure of current filter media: (eg: polypropylene mono/mono, 400gsm, satin weave, 5cfm)

Any other extra ordinary mode of filter failure: (stretching, abrasion on frames, damage during installation, inadequate tying / stapling / sewing after installation, sewing or welding failure)

Other thickener issues: (eg: boils frequently causing high overflow solids, or control of flocculent is inadequate with over flocculation events reducing filter flow)

Future proposed upgrades: (eg: filter floor expansion of 5 more filters to meet plant upgrade next year)

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What are the areas where improvement is desired and why: (eg: Lower filtrate solids, or higher flows, or longer life, reduce bag stretching, etc...)

Anything else considered relevant:

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