

Filter Press and Material Inquiry Form

1、Application Areas

- ☐ Chemical Industry ☐ Food Processing Industry ☐ Metallurgical Industry
☐ Non-metallic minerals ☐ coal washing ☐ Pharmaceutical Industry
☐ Environmental Engineering

2、filtered material

Material Name: _____

Main Ingredients: Solid _____; Liquid _____

Brief Description of Slurry Characteristics: _____

Feed concentration: _____ (g/L) or _____ % (w/w) or _____ % (v/v)

specific gravity (g/cm³): slurry _____; Solid _____; Liquid _____; filter cake

Temperature: _____ pH value: _____ viscosity: _____ cp

Particle size of solid particles: _____ um ratio _____ %; _____ um ratio _____ %

3、Design Requirements

Final product: Filter cake ☐ Yes ☐ No

Filtrate ☐ Yes ☐ No

Processing Capacity: slurry _____ (m³/h)

filter cake _____ (m³/day)

Working hours: _____ (Hours/Day); _____ (Day/Week); _____ (day/year)

Solid content of filter cake: Minimum _____ % (w/w);

Moisture content of filter cake: Maximum _____ % (w/w)

Add chemical agents: ☐ Yes ☐ No

Type and Dosage:

Add a filter aid: ☐ Yes ☐ No

Type and Dosage:

Filter plate type: ☐ Fully diaphragm-type filter plate

☐ Hybrid components (Alternating filter plates and diaphragm filter plates)

☐ Chamber filter plate

☐ Filter plate and frame

☐ Sealed type

Filter plate external dimensions: _____ mm Broad × _____ mm Tall × _____ mm thick

Number of units: _____

Feed filtration pressure: _____ MPa

Filtrating temperature: _____ ° F / °C

Filter cake washing: ☐ Yes ☐ No

Washing medium: _____

Detergent dosage: _____ T/T.DS or _____ T/ Filter cycle

Discharge method: ☐ observable ☐ unilateral ☐ bilateral

☐ Cannot be observed ☐ Observable and unobservable

Air compression: ☐ Yes ☐ Washing inlet ☐ Feed inlet ☐ Gas inlet
☐ No

Automatic plate unloading: ☐ Yes ☐ No

Filter cloth type: _____

Filter cloth material: ☐ polypropylen ☐ nylon ☐ polyester
☐ Vinylon ☐ natural fibres ☐ Other

Filter cloth air permeability: _____litre/dm³/min

4、Reference data (Summary of existing filter press data, including experimental results)

Filter plate type: ☐ Fully diaphragmed filter plate
☐ Hybrid components (Alternating filter plates and diaphragm filter plates)
☐ Chamber filter plate
☐ Boards and frames

☐ observable ☐ Cannot be observed ☐ Observable and unobservable

Filter plate external dimensions: _____mm Broad×_____mm Tall×_____mm thick

Filtrating temperature: _____° F / °C

Filtrating pressure: _____MPa

Filtration duration: _____min

Washing pressure: _____MPa

Washing time: _____min

Pressing time: _____min

Gas purging time: _____min

Personnel-assisted production time: _____min

Total filtration cycle: _____min

Filter area: _____m²

Chamber volume: _____m³

Filter cloth model: _____

production capacity: _____T (千品) /cycle

Filter penetration: _____

Material unloading results: _____

Filter cake solids content: _____%

Leakage situation: _____

Issues requiring resolution: _____

6、Other separation equipment parameters

Recently used separation equipment:

Centrifuge: Filter area _____m²; _

Vacuum filter: Filter area _____m²; Vacuum level_____MPa; rotational speed
_____rpm;

Other_____