

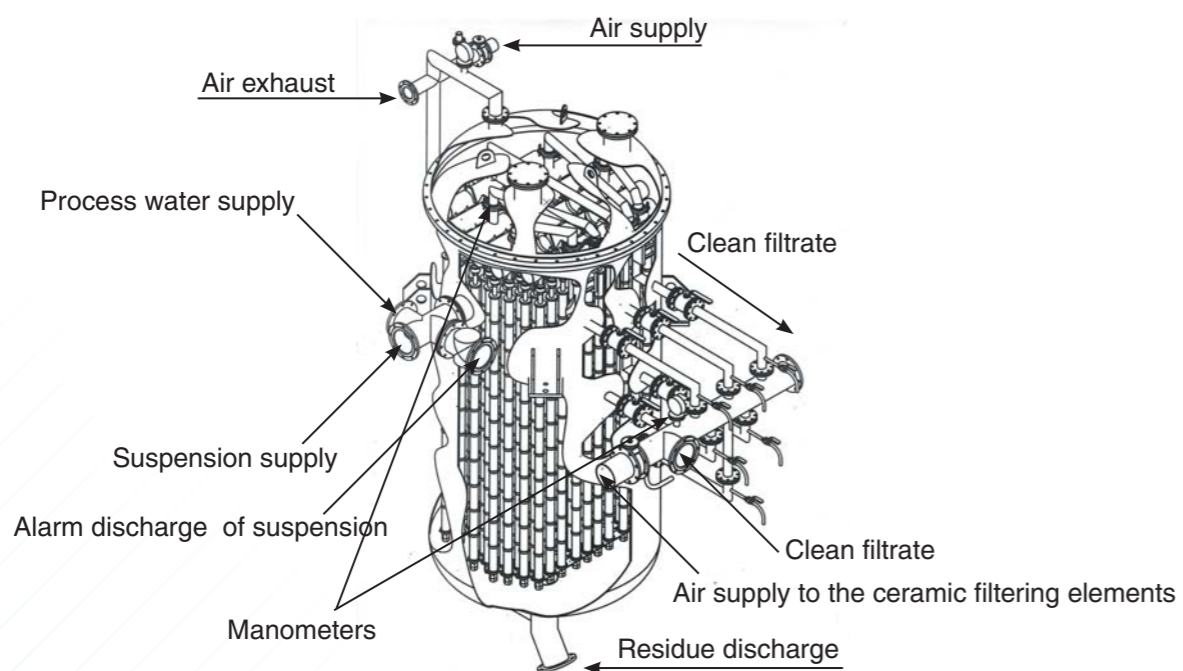


POLISHING FILTER PCF

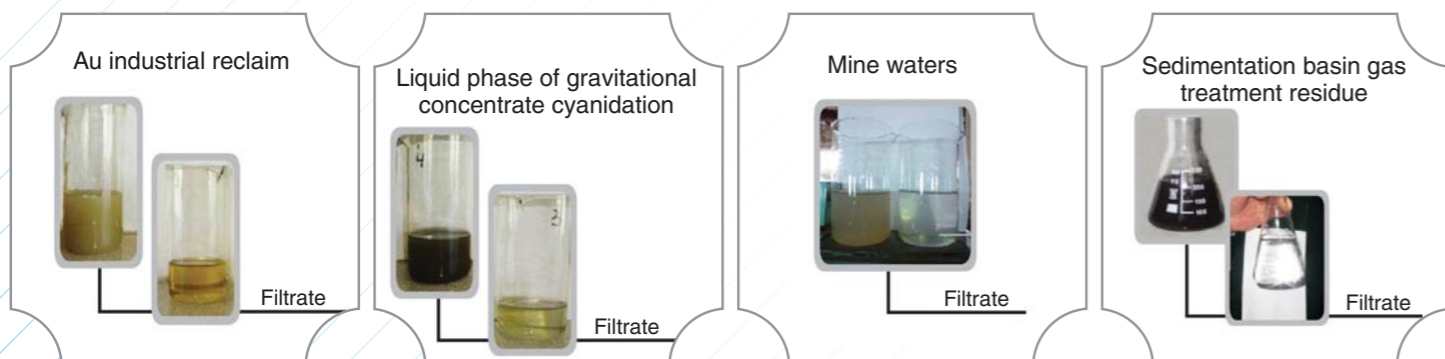
bakor

PCF TECHNICAL SPECIFICATIONS

SPECIFICATION	PCF-4	PCF-60	PCF-100
Filtration area, m ²	4.7	58	96.2
Quantity of filtering elements in one candle, pcs	5	11	11
Total quantity of filtering elements, pcs	50	616	1023
Filtrating operation pressure, kg/m ³	6	6	6
Filter diameter, mm	860	1916	2320
Height, mm	2780	6810	7265
Air operation pressure in filter tank, kg/sm ²	0.7	0.7	0.7
Air operation pressure of feeding pneumatic control system, kg/sm ²	6	6	6
Maximum allowed sidewall operation temperature, C ⁰	+95	+95	+95
Minimum allowed sidewall operation temperature, C ⁰	+5	+5	+5



RESULTS OF THE FILTRATION



bakor

PCF

POLISHING CERAMIC FILTER

SOLUTION PURIFICATION

SOLIDS RECOVERY

HIGH FLOW CERAMICS
99,9% SOLIDS CAPTURE
FULLY AUTOMATIC PLC OPERATION
MAXIMIZES SOLUTION PURIFICATION
CERAMIC CANDLES LONG LIFE SPAN
CONTINUOUS OPERATION



Polishing Ceramic Filters PCF, with ceramic filter elements are designed for filtration of industrial liquids with 1 to 15% concentration of solids.

INDUSTRIES

- MINERAL AND HYDROMETALLURGICAL
- CHEMICAL AND PETROCHEMICAL
- OIL-GAS with higher hydrogen sulphide composition
- HOUSING AND COMMUNAL SERVICES
- BUILDING
- BRANCHES OF INDUSTRY using wet method of gas purification

APPLICATIONS



FILTRATION OF SOLUTIONS WITH LOW CONTENT OF SOLIDS :

- Hydrometallurgical solutions
- Electrolytic solutions



CLEANSING OF INDUSTRIAL WATERS:

- Cooling waters
- Waste waters



FILTRATION OF SOLIDS WITH THE AIM TO RETURN THE VALUABLE COMPONENTS:

- Thickeners underflow
- Unbalanced waters

FILTRATION OF ACIDS FROM ADMIXTURES

THE PCF ADVANTAGES



- High capacity – 1.9 m³/m²
- 99.98% solids removal from solutions
- Filtrate is used for looped water cycles as its solids content does not exceed 0.001 g/dm³
- Membranous coating allows removal of fine insoluble calcium compounds
- Continuous non-stop applications
- High heat endurance allows filtering of hot solutions
- High mechanical strength (57 MPa)
- And acid and alkali resistance of filtering
- Elements provide the minimum filter replacement age of 12 months
- Custom design pore size of ceramic elements to meet specific process requirements
- High regeneration ability membrane coating technology guarantees 100% solids removal
- Liquidation of sludge ponds and release of valuable land space
- Possibility to eliminate the flocculant feeding
- Operating costs economy and clean products



MAKING THE DIFFERENCE: BAKOR'S NANO CERAMIC CARTRIDGE IS THE BEST OF CLASS TECHNOLOGY

Ceramic filtering elements are manufactured from porous permeable materials based on the latest NANO technologies, in the form of hollow cylinders and ensure maximum filtration efficiency.

Element filtering efficiency depends on the ceramic's permeability (open porosity) and average hydraulic pore size. The ceramic media is made from porous permeable powders, specifically selected to achieve maximum hi-flow results while obtaining optimum solids removal.

THE ADVANTAGES OF BAKOR CERAMIC FILTERING ELEMENTS

- HIGH CERAMIC POROCITY
- STABLE IN ACID SOLUTIONS
- INCREASED BACK-WASHING PRESSURE PROVIDES 100% REGENERATION
- HIGH THERMAL RESISTANCE FOR HOT SOLUTIONS AND APPLICATIONS
- MAXIMUM STRENGHT
- VERIED MICROSTRUCTURE TO CONTROL THE PORE SIZES
- VARIETY OF DESIGNS FOR SPECIAL APPLICATIONS

New nano technologies developed by Bakor, allow production of special type of ceramic materials with high porosity and controlled pore size. This Bakor technology is applied to the superior mechanical design of the filtering elements. And when applied to specific process applications provide the most advanced and progressive liquid/solids solution.

- CLEAN FILTRATE
- RETURN OF SOLIDS TO THE PRODUCTION PROCESS
- USE OF CLEANED SOLUTION IN LOOPED WATER CYCLE
- CONSIDERABLE REDUCTION OF WATER CONSUMPTION

