



## iCerMax™ Ceramic Filters

Ceramic Filters offer surety of sustainable cleanliness levels through depth filtration, and offer absolute reliability in monitoring the filtration medium's integrity with various inherent additional direct benefits. Setting new filtration standards in *capture* and *retention* efficiency in air, gas and liquid filtration and industrial applications. ICerMax™ Ceramic Filters are an ideal multi- functional filtration medium which offers distinctive competitive advantages.



### The advantages of using iCerMax™ Ceramic Filters

- *Multi- functional* wear resistant (Pyrites) ceramic filtration medium – ideal for air, gas & liquids or any combination of these and for industrial applications.
- There is surety of *sustainable cleanliness* levels, compared to other market filtration mediums, as iCerMax™ ceramic's don't form channels, don't have medium migration and there is no severe unloading or element collapse. iCerMax™ ceramics possess a non-flexi depth medium.
- *Structural integrity*, iCerMax™ eliminates filtration medium breakdowns or compromise caused by multiple surges , hammering effects, operating pressures ( high or low ), severe pressure variances, extreme heat -800 degrees plus , chemicals, surfactants ,water ,acids, biocides or expiry dates, etc.
- Excellent sustainable *Capture efficiency* –unsurpassed Micron ratings even under severe pressures and surges.

- *Holding capacity and dirt retention* (the main “Achilles heel” of various filtration mediums) are exceeded, as dirt remains in the filter due to the unsurpassed structural integrity of the filter medium i.a.w there is no costly dirt surges or any seepage that negatively affect or compromise the cleanliness levels.
- *Reliable filtration monitoring sensors/ pressure gauges.* As the medium does not compromise the filtration monitoring sensors reflect the actual real time status of the filtration process thus eliminating estimated change intervals based on shifts, volume, or on hourly or distance monitoring.
- *Process applications efficiencies:* the inherent characteristics of iCerMax™ allow for a functional optimisation design of processes, which requiring a superior multi functional filtration solution.
- With higher pressures/ flow rates and their vast dirt holding capacity iCerMax™ ceramics set new standards in *bulk filtration* sustainable cleanliness levels and are totally in a league of their own.
- *Dry start, cold start, restarts and multiple surges* –crunch/ripping/unloading cause medium distress or severe contamination unloading. This is simply a non-occurrence with iCerMax™. Most other mediums are severely compromised with this phenomena which is exponentially exacerbated when filtration mediums are contaminant loaded.
- *Thermal shock* - resistant to severe instantaneous temperature changes. The porosity and functionality of the iCerMax™ ceramics remain unchanged and intact.
- *Multi -functional applications* -Air rating, coalescing, purification, cooling, insulating, etc.
- *Cost effective,* economical cost filtration with sustainability, lower maintenance, less call outs, less resources required.
- The iCerMax™ *product range* includes: pre -filters and final filters. Customising the porosity (efficiency), flow rates, micron rating, differential pressures and sizes to accommodate the functionality and diversity of its multiple applications in air, gas & liquids.
- *Various filtration housings:* specialised stainless steel, high/low pressure vessels, spin-on filters, etc - custom made to clients’ requirements. Utilizing a client’s current housing is also an option that may be explored.
- iCerMax™ excels in all of the main *Filtration criteria* -Reliable Performance, High Integrity, Resistance to flow or differential pressures , Collapse Strength ,Structural integrity, Capacity/Efficiency, Longer Life and Lower Costs and Chemical Capability.

