

AWSS Sintered Powder Filter Cartridges



Sintered stainless steel powder is normally formed by compressing a controlled blend of metal particles into their "green" state and sintering them in a controlled atmosphere furnace into a rigid media. The resultant medium is typically between 2-3 mm thick, ungraded through its thickness and has a fairly tight pore size distribution. During the initial compression of the medium, the high pressures gives rise to a smooth surface finish and high density media with a maximum void volume of around 50%. This low voidage and high thickness leads to low permeability.

Sintered Powder Filter Cartridges

Sintered powder filter cartridges are suitable for applications with high temperature and high differential pressure requirements. Although they are typically less permeable than the equivalent fibre product they are extremely robust and suitable for use in the most demanding operating conditions.

The Sintered Powder filter cart wide range of materials, including stainless steel, titanium, nickel, bronze, Inconel, Monel and Hastelloy.

Available in diameters from 13.5 to 135mm, continuous lengths up to 1500mm, and with a full range of sinter bonded endcaps including 222, 226, flanged, threaded, closed and fin.

Cleaning

Reverse flow

Where most of the contamination is larger than the pore size of the filter media, reverse flowing the liquid or gas through the element will usually be adequate for cleaning. Typically, a flow of at least 2 times the forward flow provides good cleaning.

Ultrasonic cleaning

Again, surface contamination can be removed by ultrasonic cleaning in a bath containing detergent, deeply embedded particulate may not be removed.

Chemical cleaning

A variety of chemicals (solvents, acids, caustic etc) can be used to dissolve the contaminant or process fluid if it has hardened on contact with air.

High temperature burnout

Contact European Filter Solutions for detailed advice.

