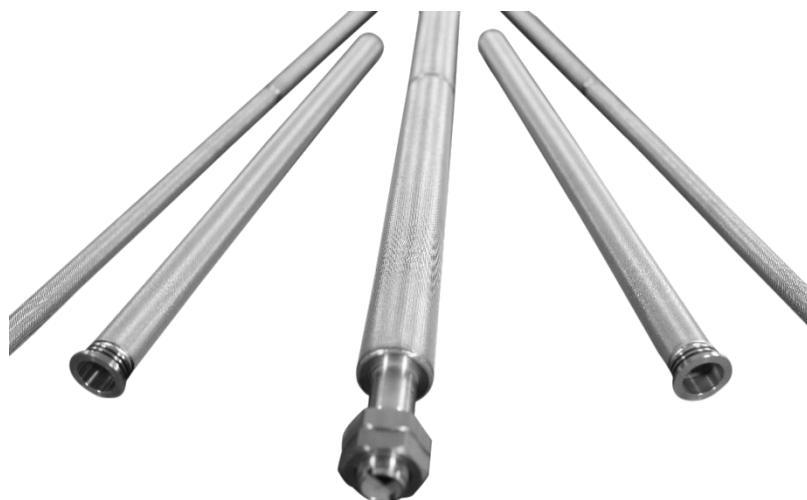


烧结金属粉末多孔材料是采用模压成型再经过烧结工艺制备的金属粉末多孔材料，具有良好的渗透性，孔径与孔隙度可控，耐高温，抗腐蚀性好、可再生等优点，可以采用多种材质，如不锈钢、青铜、高温合金等。

Mould press products are manufactured through processes as mould forming with raw materials of metal powder and then sintered in hydrogen/vacuum furnaces. This porous material has high strength, high filtration efficiency and good permeability and can be formed in various shapes, such as plates, discs, tubes, bushings, caps, cones, etc.



烧结金属丝网多孔材料：采用多层金属编织丝网为原料，通过特殊的叠层设计、在真空或者保护性气氛条件下加

压烧结而成。烧结后的复合金属丝网材料既保持了单层金属编织丝网孔隙结构简单、网孔尺寸均匀的特性，又克服了其强度低、网孔形状不稳定等的不足，并且可以灵活地对材料的孔隙尺寸、渗透性能和机械强度进行匹配与设计，因而其综合特性优异。

Sintered Metal Powder Porous Materials via Isostatic Pressing: Sintered metal powder porous materials via cool isostatic pressing are manufactured through processes as cool isostatic pressing, sintering in hydrogen/vacuum furnaces. This porous metal material is characterized with high strength, even density distribution, good permeability, and is capable to be formed into different complicated shapes. This kind of porous metal materials can be made of various material such as stainless steel, Fe-Al alloy, titanium alloy, super alloys, etc. and have been widely used for gas and liquid filtration, catalyst recovery, fluidization, powder conveying, etc.

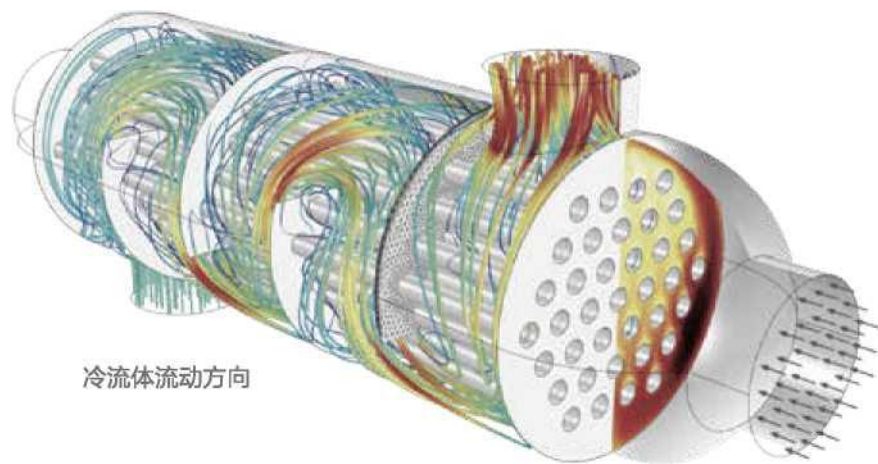


纤维毡材料及元件：金属纤维烧结毡采用微米级的金属纤维为原料，经过无纺铺制，层叠及高温烧结而成。金属纤维毡层叠的纤维丝可以形成一种三维结构多孔结构，因而具有较高的孔隙率和优良的渗透率。柔软的金属纤维毡还可以比较方便折叠成波纹状，从而大幅度提高单位体积内有效过滤面积。Sintered Metal Fiber Material and Its Filter Elements are made of  $\mu\text{m}$ -level metal fibers with non-woven pavement through layering and high temperature sintering. The fibers layered in metal fiber could form a 3D porous structure, providing high porosity and excellent permeability. The soft metal fiber could be pleated to significantly improve the effective filtration area in unit volume.



楔形网（Wedge Wire Screen）,又称为约翰逊滤网（Johnson Screen）：是应用特制不锈钢梯形（楔形）丝（绕条）绕组在一圆周式排列的一组纵向支撑杆（筋条、托条）上焊制而成的滤芯，其筛管缝隙间会形成明显的V字形开口。

Wedge Wire Screen/Johnson Screen and Its Filter Elements are made by winding the special wedge-shaped stainless wires (winding bars) on a group of longitudinal supporting rods (bar supporting rods) arranged in cycle through welding. Obvious V-shaped openings will be formed in the gap between filtration pipes.



高通量换热管：采用高通量管的换热器能够大大降低设计换热面积，减小设备体积，节约工程建设投资。高通量换热管特点是将粉末复合在换热管基体上，改变沸腾表面的表面状态，颗粒间构成孔隙，成为泡核沸腾中心，使膜状沸腾改变为泡核沸腾，显著提高沸腾给热系

数。Sintered High Flux Tubes for Heat Exchange could significantly reduce designed heat exchanging area, reduce equipment volume and save project investment. The feature of high flux heat exchange tubes is that powder is composed on the base metal of heat exchange tubes to change the status of boiling surface to form porosity between particles and form nucleate boiling center, so as to change the membrane-shaped boiling into nucleate boiling and significantly improve the boiling heat transfer coefficient.