

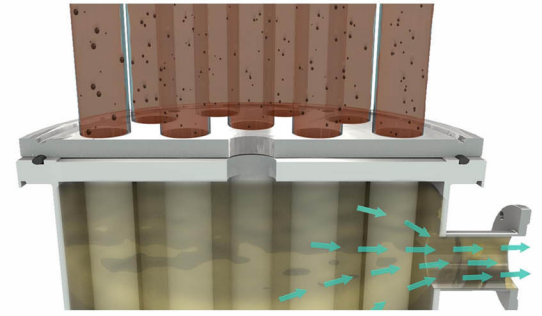
CRM微滤超滤陶瓷膜

MF/UF Ceramic Membranes

无机陶瓷膜是由高纯度氧化铝,氧化钛等多种复合材料挤压成型并长时间高温煅烧而成,产品外观呈多通道管状,似无暇的玉石;内部为不对称的多孔多层结构,由外至内依次为支撑层,过渡层,微孔膜层,最小过滤孔径可达纳米级甚至分子级。我们从国外引进并研制开发了多项膜材料制备技术,可生产高强度耐腐蚀型无机陶瓷分离膜元件,可为用户提供不同过滤孔径,外径,通道及长度的个性化定制服务。

由于无机陶瓷膜分离精度高化学稳定性好等特点,非常适用于医药化工食品环保等流程工业的固液分离纯化。无机陶瓷膜运行原理为“内压错流过滤”方式:流体经泵提速升压后由多通道进入膜元件,在压力驱动下,水及小分子溶解组分透过膜层形成渗透液,微米亚微米悬浮物及油脂等大分子组分被膜截留形成浓缩液(或称截留液)从多通道另一端流出。由于流体在微孔膜层表面高速流动,不容易形成厚的滤饼,过滤阻力小,因此能够长时间保持稳定的过滤通量。同时由于微孔膜层孔径很微小,与常规的离心机分离及板框压滤机过滤方式相比,膜滤液透光率更高,杂质含量更少!

Inorganic membrane is a porous fine ceramic filter which is sintered from Alumina or Titania, Zirconia oxide under ultra high temperature. Ceramic membranes normally have with an asymmetrical structure with porous support active membrane layer. The macro porous support ensures the mechanical resistance while the active layer functions separation ranging from Microfiltration, Ultrafiltration and even Nanofiltration (from 10µm down to 1KD) Ceramic Membrane always runs at a crossflow filtration mode. The turbid fluid goes through membrane layer inside the single channel or a multi channel at a high velocity. Driven by TransMembrane Pressure(TMP), the clean liquid with micro-molecule pass through the membrane layer vertically to permeation, the solid and big molecule is rejected in retentate. The feed fluid is thus clarified, concentrated and purified.



CRM无机陶瓷膜性能特点

分离精度高,孔径达纳米级

耐强酸、强碱及强氧化剂

耐有机溶剂

耐高温,耐磨损

抗污染,强度高,使用寿命长

Advantages of CRM Membranes

Fine separability with nanometer pore size

Acid&Caustic&Oxidation stability

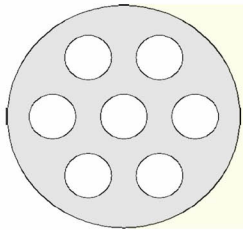
Solvent stability

High thermal stability

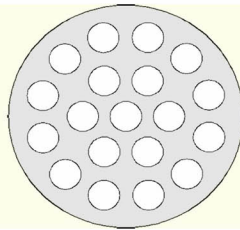
Abrasive resistance

Antifouling, High strength, Long work life

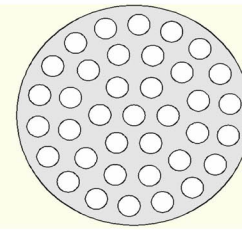
微滤 Microfiltration 孔径 Pore Size: 1.2µm, 0.5µm, 0.2µm, 0.1µm 超滤 Ultrafiltration 截留分子量 MWCO: 50nm, 20nm, 50KD, 20KD
 材质 Material: 高纯度 99% Al₂O₃, 运行温度 Temperature: <100℃, ΔT <10℃/min 运行压力 Pressure: TMP <1.0Mpa, 运行酸碱度: pH0-14



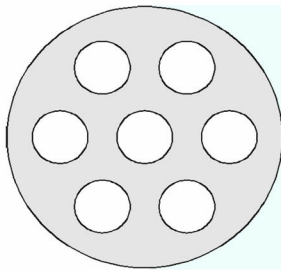
型号 Model: CRM250960
 外径 OD: 25mm
 通道直径 Channel ID: 6.0mm
 标准长度 Length: 1178mm
 膜面积 Area: 0.20m²



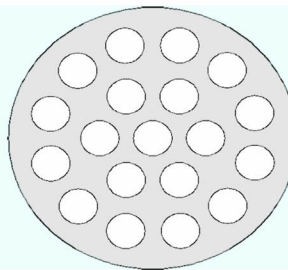
型号 Model: CRM251935
 外径 OD: 25mm
 通道直径 Channel ID: 3.5mm
 标准长度 Length: 1178mm
 膜面积 Area: 0.25m²



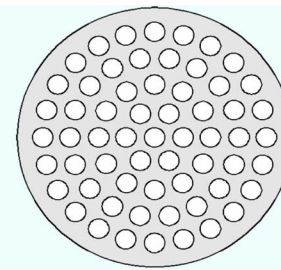
型号 Model: CRM253722
 外径 OD: 25mm
 通道直径 Channel ID: 2.2mm
 标准长度 Length: 1178mm
 膜面积 Area: 0.30m²



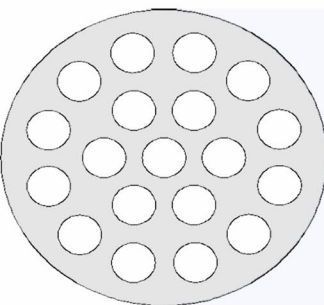
型号 Model: CRM300760
 外径 OD: 30mm
 通道直径 Channel ID: 6.0mm
 标准长度 Length: 1016mm
 膜面积 Area: 0.134m²



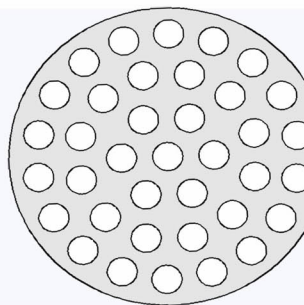
型号 Model: CRM301940
 外径 OD: 30mm
 通道直径 Channel ID: 4.0mm
 标准长度 Length: 1016mm
 膜面积 Area: 0.24m²



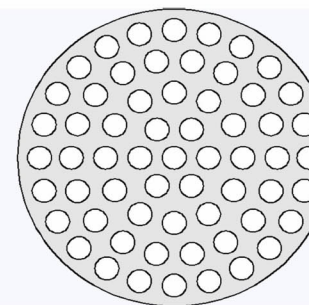
型号 Model: CRM306122
 外径 OD: 30mm
 通道直径 Channel ID: 2.2mm
 标准长度 Length: 1500mm
 膜面积 Area: 0.63m²



型号 Model: CRM401960
 外径 OD: 40mm
 通道直径 Channel ID: 6.0mm
 标准长度 Length: 1200mm
 膜面积 Area: 0.50m²



型号 Model: CRM403736
 外径 OD: 40mm
 通道直径 Channel ID: 3.6mm
 标准长度 Length: 1000mm
 膜面积 Area: 0.418m²



型号 Model: CRM406125
 外径 OD: 40mm
 通道直径 Channel ID: 2.5mm
 标准长度 Length: 1500mm
 膜面积 Area: 0.72m²

