

## CRM&CMX管式陶瓷膜

### CRM&CMX Tubular Ceramic Membrane

TFT运用欧洲优良配方和工艺、采用进口优质原料，由业内资深的专业生产和技术人员，利用一流的专业生产设备，在完善的质量管理和控制体系下、在优良的生产条件和环境下生产出CRM系列超微滤及CMX系列纳滤管式陶瓷膜元件；产品质量居于国际领先水平，相比国内的其他同类型陶瓷膜产品具有显著的优点。

#### >> 高纯度 High Purity

原料采用进口或特制  $\alpha$ - $\text{Al}_2\text{O}_3$ ,  $\text{ZrO}_2$  等粉体材料，纯度达99%以上。

Raw material is the imported nanometer powder of  $\alpha$ - $\text{Al}_2\text{O}_3$ ,  $\text{ZrO}_2$  and so on, whose purity is higher than 99%.

#### >> 高强度 High Strength

支撑体强度高，不易断裂或破损，膜分离层耐长期磨损，产品使用寿命长。

Membrane support is strong, which will not be broken easily. Membrane layer has high abrasion resistance to keep longer work life.

#### >> 高精度 High Accuracy

孔径均匀，分布窄，最小过滤精度可达纳米级。

Narrow distribution of pore size. The mean filtration accuracy can be nanometer size.

The senior experts of TFT apply advanced recipe, unique technics, high quality raw material, and special equipment to manufacture high performance CRM ceramic membranes. All the products are controlled by precise manufacturing management and strict quality control system.

CRM-MF/UF and CMX-NF ceramic membrane are at international advanced level and have noticeable more advantages compared with other domestic ceramic membranes.

CMX-NF is kind of organophobic ceramic membrane which is developed and patented by our partner in America. CMX-NF make it possible to customize specific separations due to the composition of the molecules presented in the stream, with huge market in petrol and oil&gas industry.

#### >> 高通量 High Flux

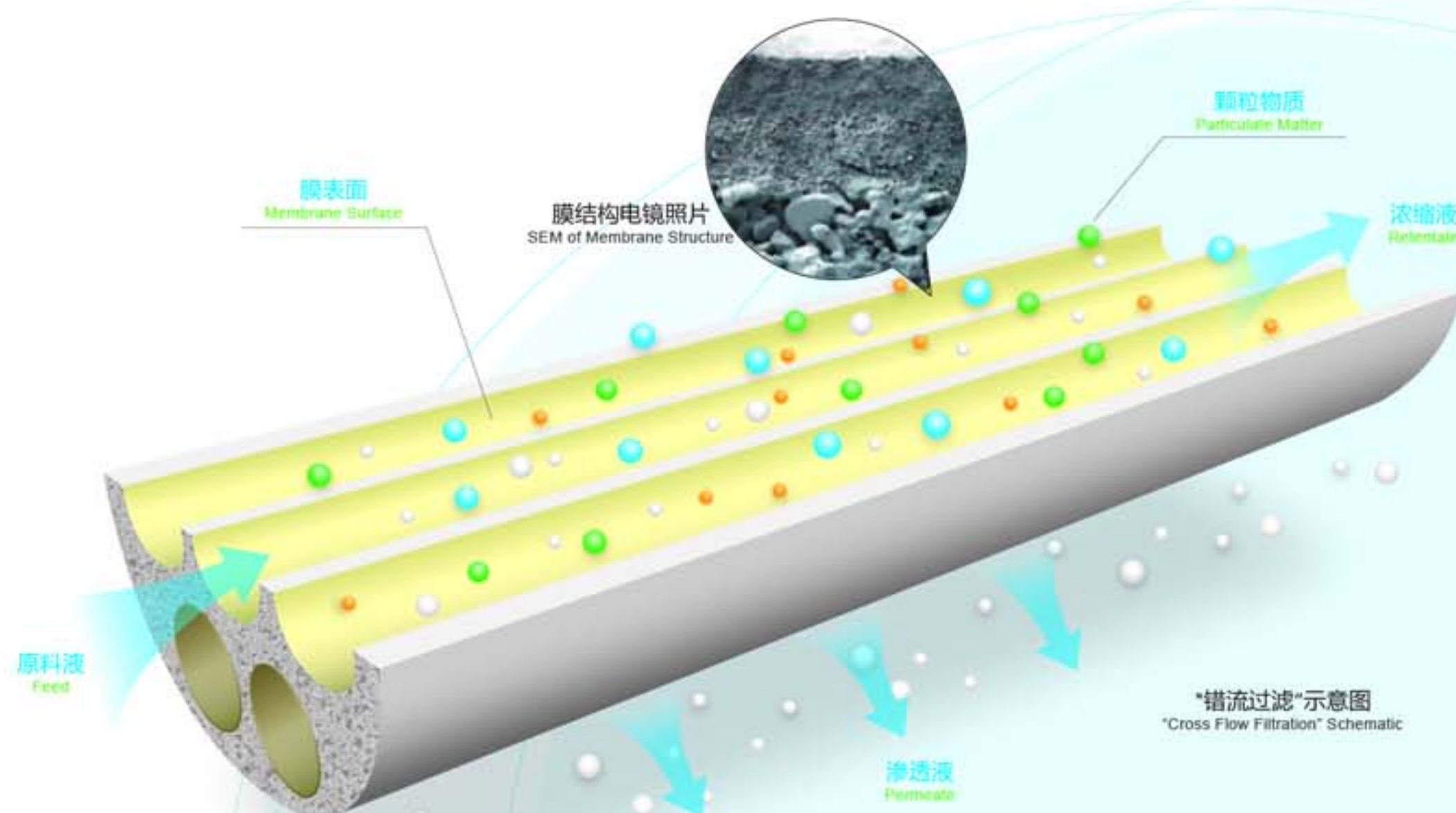
CRM&CMX陶瓷膜在维持较厚膜层的情况下，依然能够保持高通量的长期稳定运行。

Though the membrane layer is relatively thicker, the flux can keep stable for a long period.

#### >> 高性能 High Performance

耐强酸强碱，耐强氧化剂，耐溶剂，耐高温。

CRM&CMX membrane can be operated in strong acid, caustic, oxidant, and solvent at high temperature.







微滤/MF 孔径Pore Size: 1.2  $\mu\text{m}$ , 0.5  $\mu\text{m}$ , 0.2  $\mu\text{m}$ , 100nm

超滤/UF 截留分子量MWCO: 50nm, 20nm, 150kD, 100kD, 50kD, 20kD

材质/Material: 高纯度99%的 $\alpha$ -Al<sub>2</sub>O<sub>3</sub>, ZrO<sub>2</sub>

运行温度/Temperature: <150℃,  $\Delta T < 10^\circ\text{C}/\text{min}$

运行压力/Pressure: TMP<1.0Mpa

运行酸碱范围: pH 0~14

长度Length: 可在250~1500mm范围内定制 Customized from 250~1500mm



型号/Model: CRM2507  
通道数/Channel Qty.: 7  
标准长度/Length: 1178 mm  
膜面积/Area: 0.15 m<sup>2</sup>



型号/Model: CRM2519  
通道数/Channel Qty.: 19  
标准长度/Length: 1178 mm  
膜面积/Area: 0.25 m<sup>2</sup>



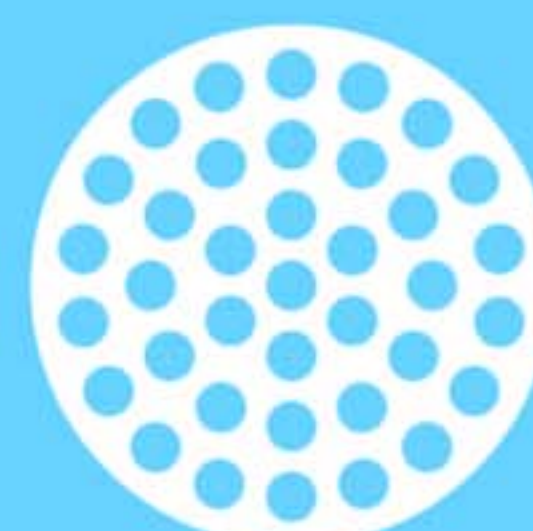
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通道数/Channel Qty.: 37  
标准长度/Length: 1178 mm  
膜面积/Area: 0.30 m<sup>2</sup>



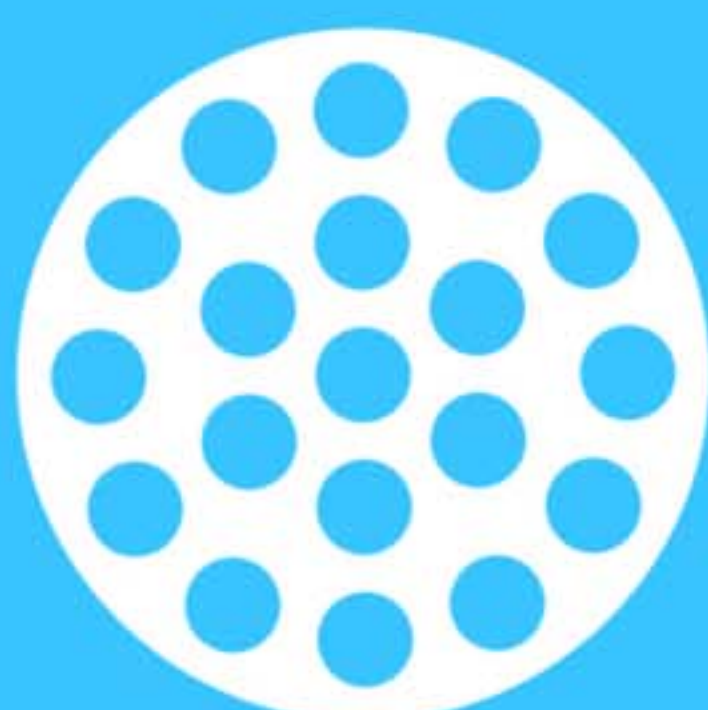
型号/Model: CRM3007  
通道数/Channel Qty.: 7  
标准长度/Length: 1016 mm  
膜面积/Area: 0.13 m<sup>2</sup>



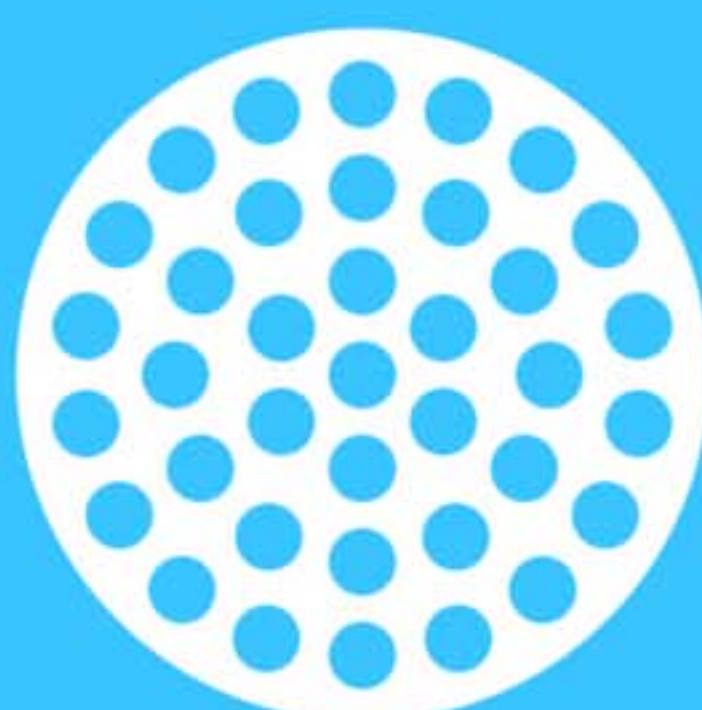
型号/Model: CRM3019  
通道数/Channel Qty.: 19  
标准长度/Length: 1016 mm  
膜面积/Area: 0.24 m<sup>2</sup>



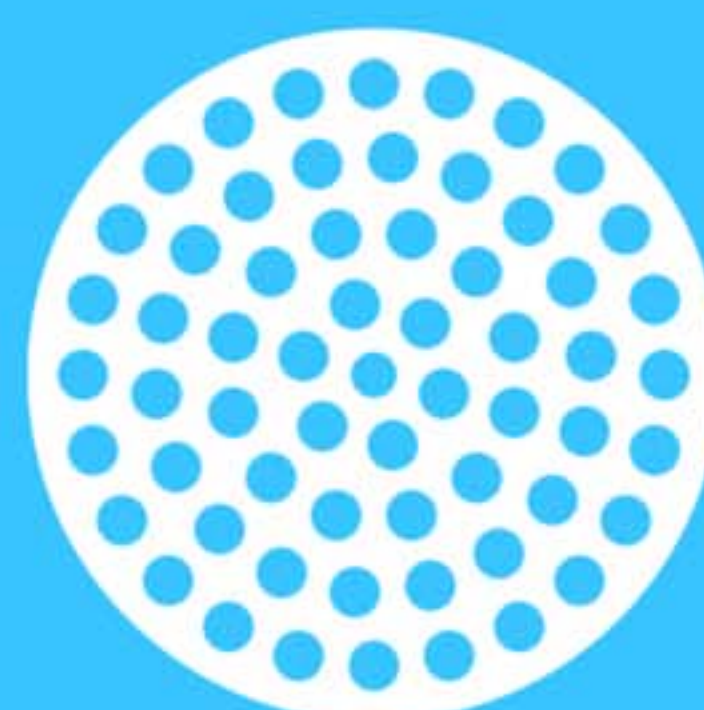
型号/Model: CRM3037  
通道数/Channel Qty.: 37  
标准长度/Length: 1200 mm  
膜面积/Area: 0.418 m<sup>2</sup>



型号/Model: CRM4019  
外径/OD: 40 mm  
通道数/Channel Qty.: 19  
标准长度/Length: 1000 mm  
膜面积/Area: 0.36 m<sup>2</sup>



型号/Model: CRM4037  
外径/OD: 40 mm  
通道数/Channel Qty.: 37  
标准长度/Length: 1200 mm  
膜面积/Area: 0.50 m<sup>2</sup>



型号/Model: CRM4061  
外径/OD: 40 mm  
通道数/Channel Qty.: 61  
标准长度/Length: 1500 mm  
膜面积/Area: 0.72 m<sup>2</sup>