

金属表面处理完整解决方案提供商



EP COATING PROCESS

SPECIAL COATING TECHNOLOGY FOR GAS LINE

| Multi Plating Coating Technology |

特气管路专用镀层技术 | 多层电镀加工技术 |



中创微
AMCT

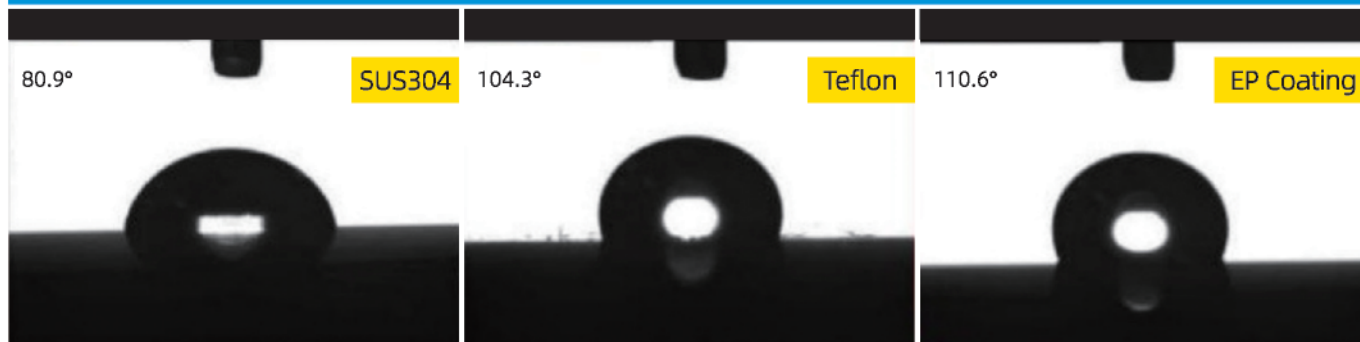


ADVANTAGES OF TECHNOLOGY

该技术的优势

High Hydrophobic Property, Contact Angle: 110.5° ,
The Surface Is Not Easily Adhered To Liquids And Contamination.
高疏水性, 接触角达 110.5° , 表面不易附着液体或其他污染物

Wettability (Contact Angle) 润湿度(接触角)

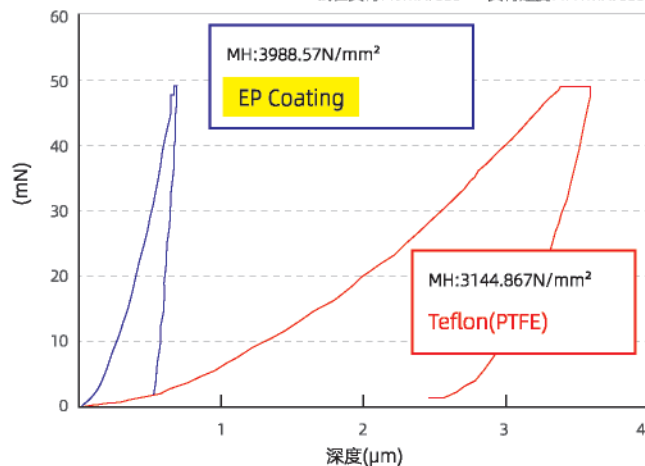


Compared With Teflon Coatings, Having Higher Hardness And Wear Resistance.
与现有特氟龙涂层相比, 具有更高的硬度和耐磨性

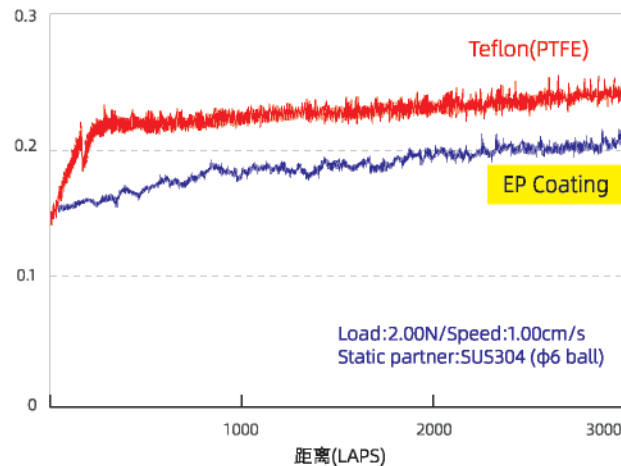
Mechanical Properties 机械性能

Compression Hardness Measurement Results 压缩硬度测试

试验负荷: 49mN/sec 负荷速度: 4.41mN/sec



Friction Coefficient Measurement Results 摩擦系数测试

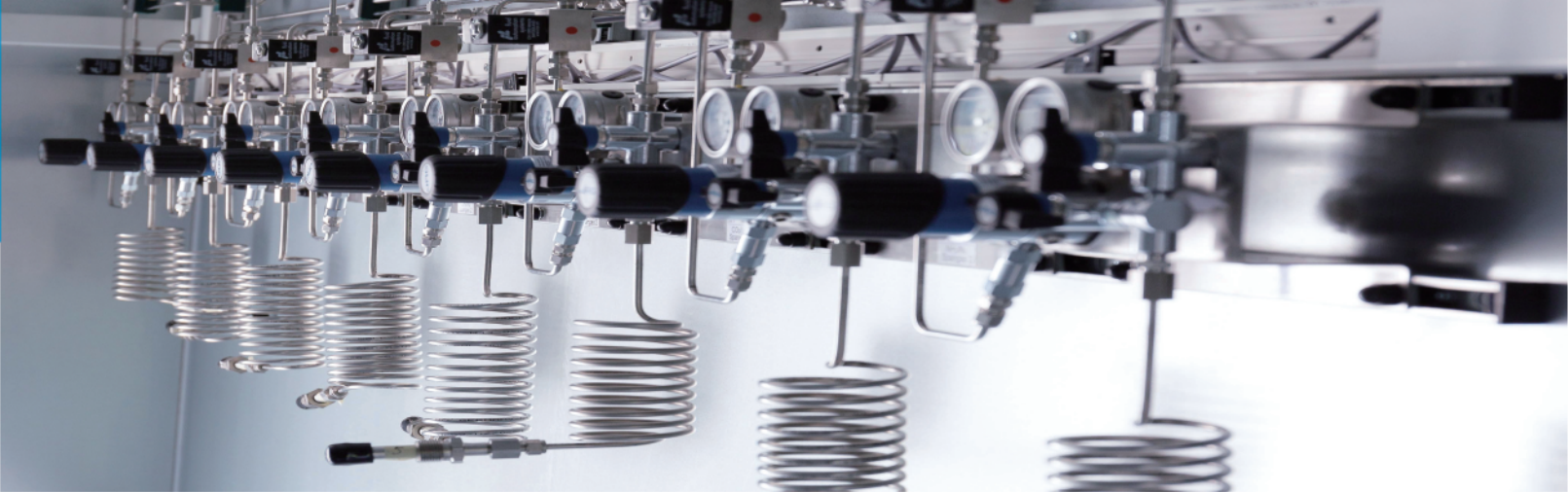


Not happened Pin Hole effect
解决了现有特氟龙涂层出现的内部缺陷问题



Uniformity Of Coating Thickness: $\pm 0.5\%$
镀层厚度的均匀度: $\pm 0.5\%$

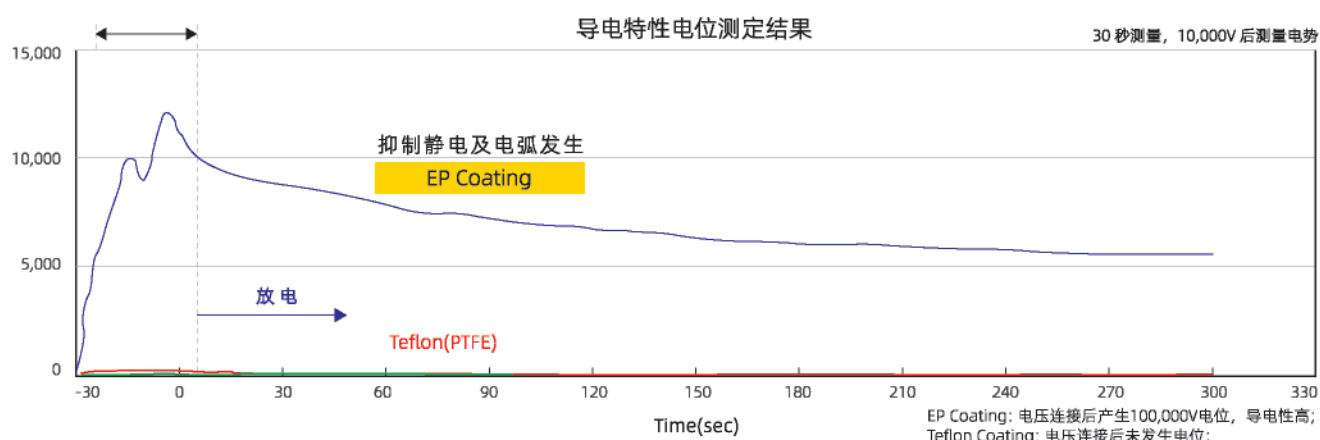




Electrical Conductive Coating, Can Suppress Static Electricity And Arcing (Can Be Applied In Flammable Environments)

为导电性涂层，可抑制静电及电弧发生（在可燃性环境中也可以适用）

Electrical Properties 导电特性



Operation At High Temperatures : 380°C

可在高温条件下使用

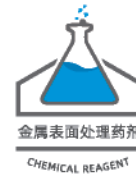
380°C

Comparison Of Coating Performance

涂层性能比较

项 目	单 位	Teflon	X-涂层	EP COATING	结 论
温度	°C	260	400	380	与X-涂层和Teflon相同水平
厚度	μm	300-400	1~30	15~20	均匀性: X涂层±10% Teflon±0.5%
粗糙度	Ra (μm)	0.70	-	0.04	母材(SUS)条件: Ra0.0003μm/Ry0.019μm Ra:平均粗糙度, Ry最大粗糙度
	Ry (μm)	6.61	-1.45	0.25	
湿润度	Angle (°)	104.3	> Teflon	110.6	SUS 304:80.9°
结合强度	N	1.46	> Teflon	2.42	微划痕测试
摩擦性能	-	(Teflon > Niflow)			负载: 2.00N 速度:1.00cm/s 静侧摩擦体:SUS 304 (φ 6 ball)
涂层硬度	N/mm ²	144.88	-	3,988.57	SUS 304:约1,500N/mm ²
	Hv	< 200	400~500		SUS 304:129Hv
导电属性	V	12000(不导电)	- (导电)	180 (导电)	测试: 10kV, 30秒(温度20°C)

FOR DETAILED INFORMATION, CONTACT AND INQUIRE US PLEASE.
欲详细了解，请与我公司相关销售人员联络，欢迎咨询。



Products Application Of Special Coating For Gas Line 特气管路镀层应用案例

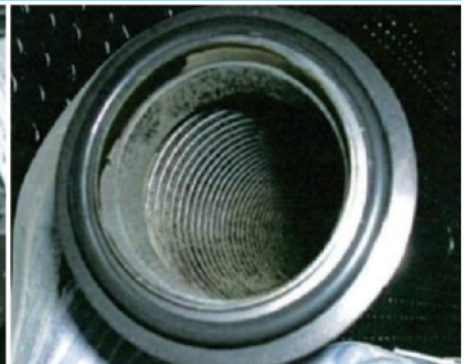
Products Application Test(3 weeks testing) 产品应用测试（三周测试）



Without Coating (Check valve)
无镀层 (止回阀)

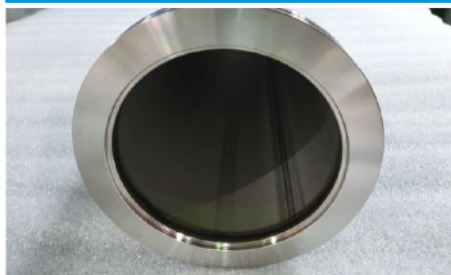


After Coating (CVD)
镀层处理后 (CVD)

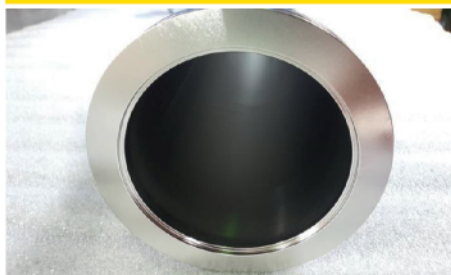


After Coating (Etch)
镀层处理后 (蚀刻)

Before EP Coating 未处理前



After EP Coating 处理后



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