



SIJIA Environmental Project Membrane

思嘉环境工程膜材



公司简介 ABOUT US

SIJIA constantly provides new environmental protection material products and professional services to more than 100 countries and regions of the world, including modern transportation, medical, construction, outdoor sports and leisure, competitive sports and other 18 major industries, proposing different application solutions for the market.

SIJIA strictly follows ISO9001 Quality Control System. It builds an overall process Quality Assurance System (QAS) from raw materials, technical formula and quality monitoring to products delivery. Meanwhile, SIJIA invites the experienced European expert, who has fully improved R&D, technology, product quality, and ensures excellent and stable products to our clients.

With the most advanced production lines in the world and experienced professional technical team, SIJIA can produce the most suitable products based on different needs of customers.

思嘉为全球100多个国家及地区的现代交通运输、医疗、建筑、户外运动休闲、体育竞技等18大行业领域,源源不断地输送新型环保材料产品及专业服务,为市场提供不同的需求应用解决方案。

公司严格按照ISO9001质量管理体系运行,建立了从原辅材料进厂、工艺配方、在线品质监控到成品出厂全过程的质量保证体系(QAS),同时,聘请欧洲资深研发专家为总工程师,对研发、技术、品质全面加强管理及提升,确保为客户提供品质优异、稳定的产品。

凭借全球最先进的生产线、经验丰富的专业技术团队,思嘉可根据客户不同的需求生产适合的产品。

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思嘉集团官网



思嘉集团公众号



思嘉新材公众号

Safety & Stable 安全稳定
Environment-friendly 环境友好型



Product Introduction / 产品介绍

Double membrane-gas storage tank material is mainly consist of the base membrane(except integration gas tank), inner membrane, outer membrane, constant voltage control box, safety protection device and its matched control equipment & auxiliary materials.

According to the kinds of different forms and specifications of gas storage tank, Sijia can supply with corresponding base membrane, inner membrane and outer membrane for the special gas storage tank material.

Base membrane: Using to seal the understructure to achieve the purpose of anti-corrosion and anti-seepage that the traditional facility can't achieve.

Inner membrane: Isolating the storage gas and the pressure regulating gas in outer membrane.

Outer membrane: Creating surge-chamber with inner membrane to output the gas from inner membrane and protect it.

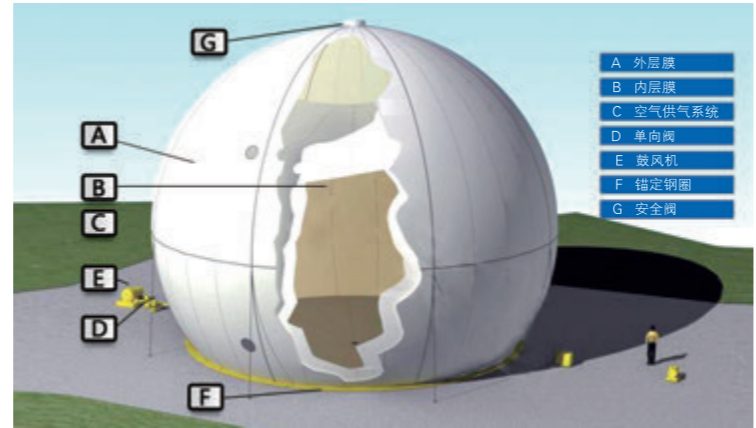
Outer membrane is joint with the base membrane and inner membrane or joint with fermentation tank, which is to be a shell to protect inner membrane and keep the pressure in gas storage.

Control box: Detecting the gas storage pressure and inner membrane bulk, on the basis of the inner membrane bulk, leakage concentration and discharge to pour into the air automatically to adjust pressure.

Safety protection device: Releasing the air in pressure room and setting free the excessive air at inner membrane section.

Theory: Creating an airtight storage space by base membrane and outer membrane. The air storage is separated from store space and adjusted space by inner membrane. When inner membrane goes up with the gas, safety protection device will release the gas to spare some capacity, to deliver the gas into gas storage.

If inner membrane rises to the ultimate limit and under pressure meanwhile, the safety protection device will release the gas in inner membrane to reach the purpose of protecting the inner membrane out of pressures.



双膜储气柜材料主要由底膜(一体化气柜除外)、内膜、外膜、恒压控制柜、安全保护器及配套的控制设备、辅助材料组成。根据各种不同形状、规格的储气柜类型, 思嘉可以提供相对应的底膜、内膜和外膜专用的储气柜材料。

底膜: 主要用于基础密封, 以实现传统基础设施无法达到的防腐、防渗透的目的。

内膜: 隔离所需储存气体和外膜调压气体。

外膜: 与内膜之间形成调压室, 实现内膜适用气体恒压输出, 并对内膜形成保护。

外膜与内膜及底膜的边缘或发酵罐口连接, 作为气柜的外壳保护内膜, 恒定柜内压强。

控制柜: 检测气柜压力和内膜容积, 还可按需集成内膜容积、泄漏浓度、系统流量等众多信息, 根据压力自动注入调压空气。

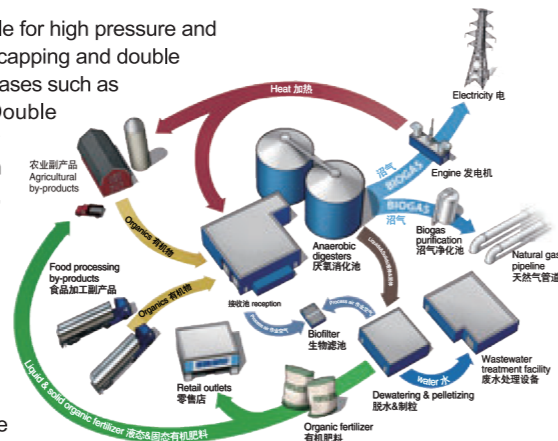
安全保护器: 调压室空气释放和内膜过量保护性排放;

原理: 底膜、外膜共同形成一个密闭储气空间。内膜将气柜分割成储气空间和调压空间。当储存气体增多时内膜上升, 安全保护器就释放调压空气腾出一定的容量, 使气体能够顺利进入气柜。

安全保护器则会保护性的释放内膜气体。达到不让内膜受压, 保护内膜的目的。当内膜储存的气体减少时内膜下降, 控制设备则注入调压空气, 平衡柜内的压强。同时稳定外膜刚度, 使储存的气体能顺利流出气柜。

Product Applications / 产品应用

- SIJIA environmental project membrane is suitable for high pressure and large gas storage to do the project like Sewage capping and double membrane-gas storage to store various neutral gases such as methane, air, carbon dioxide, oxygen, etc... Double membrane gas storage tank and other equipment to build a complete biogas purification system, can be used in agricultural production, such as greenhouse warming, agricultural products drying, food, and fruit preservation, etc...
- For residential area, biogas power can be generated to mechanical power. Large and medium-sized biogas project can be used to generate electricity, boilers, processing food, heating, etc.. The outer membrane of the spherical or cylindrical double film gas storage tank can resist various climate changes.



- 环境工程膜材适用于高压及储气量大的污水池加盖、双膜储气柜, 储存各种中性气体如沼气、空气、二氧化碳、氧气等。双膜储气柜和其他设备能构建完整的沼气净化系统, 可以用于农业生产中, 如温室保温、烘烤农产品、储备粮食、水果保鲜等。
- 对于小区级别的, 沼气可发电做机械动力, 大、中型沼气工程生产的沼气可用来发电、烧锅炉、加工食品、采暖等。其中, 球形或圆柱体双膜储气柜的外膜可抵抗各种气候变化。

Items 项目	Unit 单位	Type 型号 TestMethod 测试方法	GC-120C1180AA	GC-120C6399AA	GC-105C6399AA	GC-126C543CFA	GC-120C1180AA	GC-130C427CFA	H6125FA	H5125AA
Color 颜色	—	—	White	Light Grey	Light Grey	543C Blue	White	427C Grey	Blue/Grey	White/Grey
Basic Fabric 基布	Denier	DIN EN ISO 2060	H	H	J	J	K	L	K	K
Thickness 成品厚度(参考)	mm(±0.02)	DINENISO 2286-2	1.2	1.2	1.05	1.26	1.2	1.3	1.0	1.0
Total Weight 成品克重(参考)	g/m ²	DINENISO 2286-2	1450	1450	1250	1500	1450	1550	1250	1250
Total Width 成品幅宽	mm(±5)	DINENISO 2286-1	2000	2500	2500	2500	2500	2500	3000	3000
Tensile Strength (Warp/Weft) 断裂强度(经向/纬向)	N/5cm	ISO 1421	4200/4000	4200/4000	5300/4800	5300/4800	5800/5500	7500/6800	6200/5800	5700/5200
Tear Strength (Warp/Weft) 撕裂强度(经向/纬向)	N	DIN 53363	600/500	600/500	700/600	700/600	950/850	1350/1250	900/850	900/850
Adhesion Strength (Cover/Back) 胶的粘附力(面/底)	N/5cm	ISO 2411	120	120	120	120	120	120	120	120
Seam Strength (1/8"RF breakaway) 熔接强度	N/5cm	FTMS #5970	300	300	300	300	300	300	300	300
Surface Treatment 表面处理	-	-	Acrylic/Acrylic	Acrylic/Acrylic	Acrylic/Acrylic	PVDF/Acrylic	Acrylic/Acrylic	PVDF/Acrylic	PVDF/Acrylic	Acrylic/Acrylic
Flex Cracking (100000times) 耐折性能	-	DIN 53359	No Crack							
Flame Retardancy 防火阻燃性能	-	-	DIN4102 B ₁ /GB8624 B ₁ /EN 13501 B ₁ or Client's Requirement							
Temperature Resistance 极端适用温度	°C	DIN EN 1876-2	-30°C/+70°C							
Recommend Pressure 建议充气压力(气密性能)	Psi	-	6	6	8	8	8	10	8	8
Methane Permeability 甲烷渗透性	cm ³ /(m ² *24h*0.1MPa)	GB/T1038-2000	≤350							

- The above technical data are arithmetic averages with a permissible error of 5%. 以上技术数据为算术平均值, 允许误差5%。
- The buyer shall be fully responsible for the application of the product or any third-party use of them. 买家对产品的应用或者他们任何第三方其他用途负全责。
- All the above data are provided as the best advice we can offer for the use of the product and should not be construed as a legal statement. 以上所有数据是我们能为产品的用途提供最好的建议, 不作为法律声明。
- As our technology continues to improve, the product is also constantly being upgraded, and we reserve the right to modify the product features at any time. 随着我们技术的不断改进, 产品也在不断升级, 我们保留随时修改产品特性的权利。

Product Characteristics / 产品特性

- Special coating material to ensure methane is not easy to leak, with function of anti-corrosion, UV protection and anti-microbe.
- Excellent to resist extremely cold and high temperature, anti-oxidation, weather resistant and durable, more than 10 to 25 year's service life, and without the need for anti-corrosion treatment.
- Special coating, excellent tensile, tearing and adhesion strength, the seam will not be split when inflated.
- Bear different external pressure such as wind, snow and other climatic conditions. With the help of clamping rails the outer and inner membranes are clamped to the tank in such a way, it can achieve excellent airtightness and tear strength.
- Oli proof, stain, acid and alkali resistance, Flame retardant reach German DIN 4102 B₁, qualified for building materials.
- Excellent at heat absorption and warm keeping, temperature resistance during -30°C to +70°C.
- Light weight, easy to install and pull down, printable.
- 采用特殊涂层材料, 保障甲烷不易渗透, 同时具有抗沼气腐蚀、抗紫外线和微生物的功能;
- 耐高温及抗寒、抗氧化、耐候、持久耐用, 常规使用寿命在10~25年以上, 期间无需防腐处理;
- 采用特殊配方, 具有优异的抗拉、抗撕、抗剥离特性, 极大提高焊接强度, 保障膜材焊缝在充气状态下不会崩开;
- 承担各种外部压力, 如风、雪及各种气候变化。内外膜通过可位移夹扣与沼气池夹在一块, 这样就可以拥有很好的气密效果, 而且膜也不会被撕破;
- 防油抗污、耐酸碱, 达到德国防火标准B1级, 属合格的建筑材料;
- 耐寒、耐热等处理, 适用温度为-30°C到+70°C;
- 自重轻, 安装拆卸方便, 可印刷