



## 德国莱茵 TÜV，您值得信赖的合作伙伴

### TÜV Rheinland is your reliable partner

- 我们是首批针对半导体制造设备核发 SEMI S2 标识的第三方认证机构
  - 依据 SEMI S2 标准进行设备评估的同时，我们可进行 CE 测试及认证（欧盟机械指令，低电压指令和 EMC 指令要求）。目前，半导体设备销往欧盟时必须标有 CE 标识
  - 我们是美国职业安全与健康管理局（OSHA）所认可的测试实验室（NRTL），可根据美国和加拿大的相关规范颁发符合性证明标识
  - 我们帮助您提升品牌形象，提高买家对产品的信任度
- TÜV Rheinland was amongst the first companies to offer an internationally recognised, third-party SEMI S2 mark for semiconductor manufacturing equipment
  - We can perform testing and certification to meet the CE requirements of the European Machinery, Low Voltage and EMC Directive CE mark is necessary for exporting to the EU markets now
  - TÜV Rheinland is also a US Occupational Safety and Health Administration (OSHA) - accredited National Recognized Testing Laboratory (NRTL) that is authorised to issue listings according to various US and Canadian standards
  - We can help you to enhance your brand image in the marketplace and win the trust of clients

#### 关于德国莱茵TÜV集团

#### About TÜV Rheinland Group

总部位于德国科隆的德国莱茵TÜV集团拥有140年的经验。德国莱茵TÜV集团是国际上领先的技术服务供应商，它在全球61个国家设有500家分支机构，拥有约16,000名员工，服务涵盖工业服务、交通服务、产品服务、生命科学、培训与咨询服务以及体系认证服务。

TÜV Rheinland Group has 140 years of experience and is headquartered in Cologne. TÜV Rheinland Group is a leading group for the provision of technical services worldwide. It has 500 locations in 61 countries with a workforce of around 16,000. The business scope covers Industrial Services, Mobility, Products, Life Care, Training and Consulting, Systems.

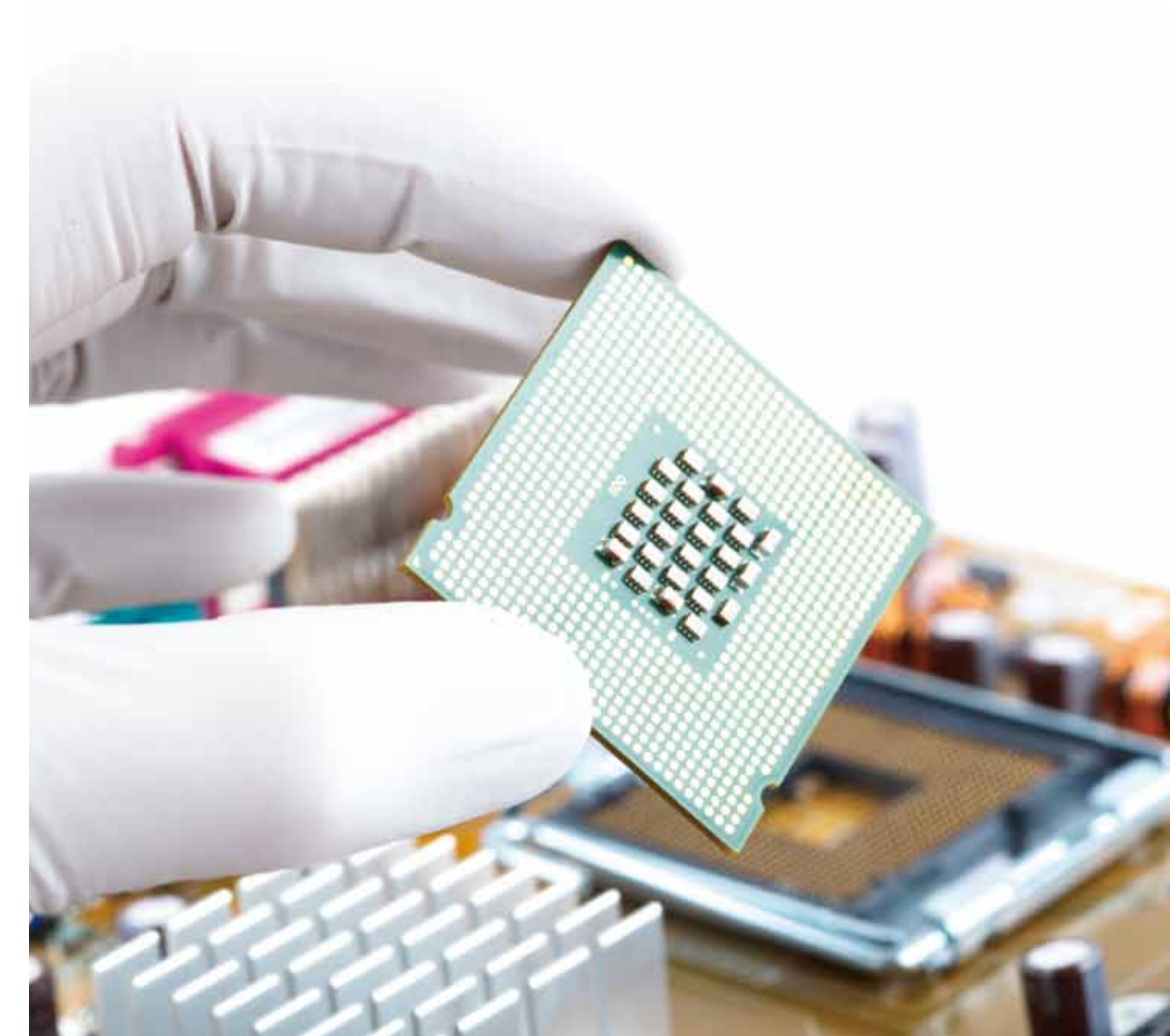


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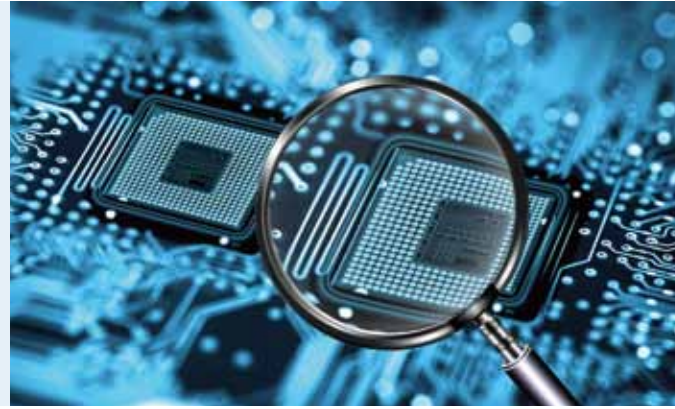
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## SEMI® S2/S8 及 S26 标准与安全评估 SEMI® S2/S8 and S26 Safety Assessment



## 半导体产业环境保护与安全的解决方案

### Solutions for EHS Issues Facing the Semiconductor Industry



半导体设备符合 SEMI®（国际半导体设备材料产业协会）标准的安全评估已逐渐成为国际买家对半导体设备制造商的普遍要求。通过独立、公正的第三方认证机构依据 SEMI 国际产业技术标准的安全性评估，可以有助于体现产品的高质量和高安全性。

SEMI S2, S26 和 F47 标准涵盖大部分健康及安全规范，包含防范电气、机械、火灾、化学、辐射、噪音及人体工学等相关法规及要求，也包括紧急停机系统、通风与废弃物排放规格以及危险警告等。德国莱茵 TÜV 的专家们可独立提供完整的 SEMI S2, S8 及 S26 及 F47 安规验证与 CE 符合性验证服务，助您顺利拓展国际市场。

Safety assessment according to SEMI® (Semiconductor Equipment and Materials International) guidelines is increasingly a requirement that international buyers impose upon semiconductor equipment manufacturers. Third-party assessment according to the SEMI guidelines helps manufacturers to prove the quality and safety of their products.

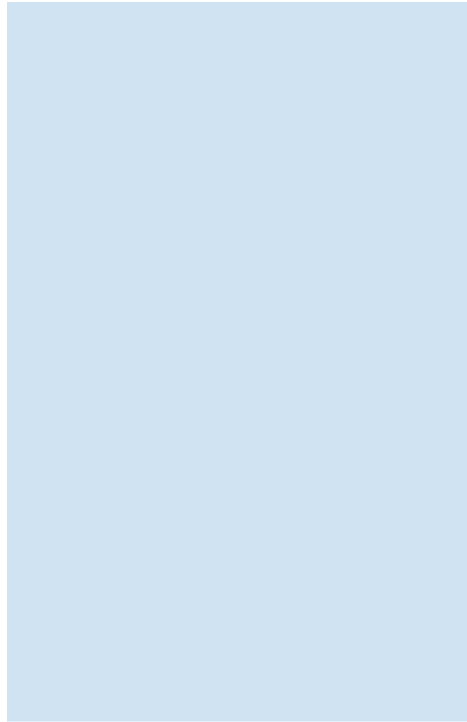
The SEMI S2, S26 and F47 guidelines cover a wide range of health and safety regulations, including the regulatory requirements for electrical, mechanical, fire, chemical, radiation, noise and ergonomic hazards, emergency shutdown, ventilation and exhaust specifications, and hazard warnings. TÜV Rheinland's worldwide team of experts provides you with comprehensive SEMI S2, S8, S26 and F47 assessment and CE marking services. We help you to gain access to international markets.

## 我们的服务

### Our services

- 机械指令及低电压指令符合性评估
- 根据 EMC 指令，针对大型设备提供现场测量服务
- 协助厂商准备技术文件档案，并颁发符合性证明
- 根据欧盟 New Approach 概念，提供符合性评估服务
- 协助客户完成紧急或其他特殊要求

- Assessment of conformity according to machinery and low voltage directives
- Measurement according to the EMC Directive, including EMC mobile service for large-sized equipment
- Assistance in preparation of technical construction files and issuance of certificates of conformity
- Assessment of conformity based on the new approach concept
- Assistance in other urgent or unique client requirements



## 测试标准

### Testing standards

#### SEMI S2/S8 评估

由专业团队依据 SEMI 文件的要求到工厂对各种环境与健康方面的危害进行系统化的评估与测试，最后提供完整的评估报告。

#### SEMI S2/S8 Assessments

Our teams of experts perform on-site assessments according to the SEMI guidelines on environmental and health hazards. Comprehensive evaluation reports are issued upon project completion.

#### 示踪气体分析

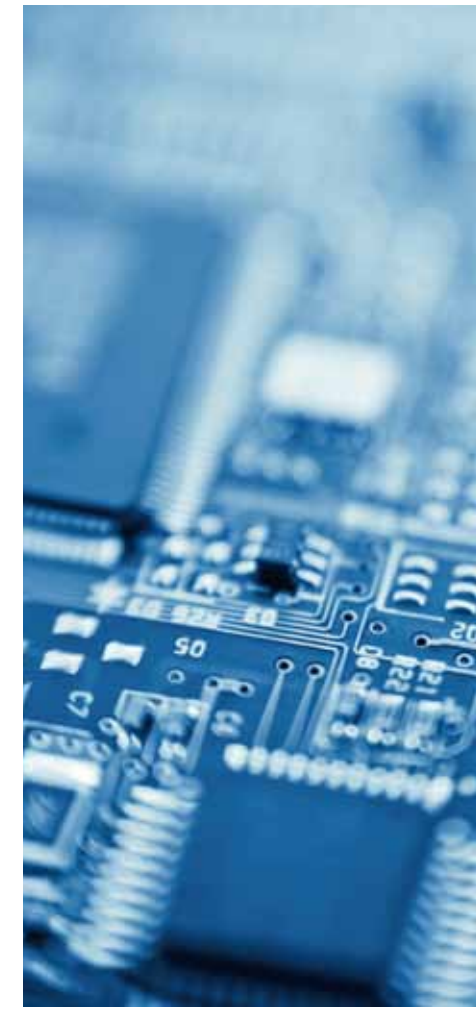
示踪气体的逸散测试是一种用来评估机台箱体完整性与通风抽气系统的方法，尤其当机台设备故障时，毒性或可燃性气体有逸散出来的可能性。德国莱茵 TÜV 可帮助您优化通风系统，降低运作成本，协助您确认设备符合各种相关标准。

示踪气体分析是根据 SEMI S6 指导进行的测试，由已作废的 SEMI F15 转化而来。

#### Tracer gas testing service

Tracer gas fugitive emission testing is a means of testing the integrity of enclosures and effectiveness of ventilation controls, where toxic, and/or flammable gas or vapor might leak out in case of equipment failure. TÜV Rheinland can help you to optimize exhaust system, reduce operation costs and also ensure your equipment still meets the requirements of relevant safety guidelines and standards.

Tracer gas analysis is performed according to SEMI S6 guideline include techniques as defined by withdrawn SEMI standard F15.



#### SEMI 26 评估

由于平面显示器制造设备与 S2 所规范的半导体设备有所差异，S26 标准（平面显示器产业设备安全基准）用以规范独立次系统的整合。除了半导体产业所关注的一般安全问题，新的 SEMI 26 标准也将系统整合的相关风险纳入考量。

#### SEMI S26 Assessments

Because of the differences between flat panel display manufacturing and machinery defined in S2, S26 is set up to deal with the integration of mutually independent subsystems. In addition to the common safety concerns of the SEMI industry, the new guideline takes into account the risks that result from the interaction of different systems.

#### SEMI F47 电压骤降测试

SEMI F47 要求进行认证的工业设备须符合半导体产业协会规定的不同电压骤降免疫力的安全标准。德国莱茵 TÜV 使用便携式电压骤降发生器，可在客户现场进行测试。除了提供符合性评估外，测试设备还能在电压骤降时，将记录连接到客户的设备里。

#### SEMI F47 Voltage Sag Test

The SEMI F47 standard calls for industry equipments to tolerate various voltage sag durations as deemed safe and practical by the Semiconductor Industry Association. The Portable Industrial Power Corruptor used by TÜV Rheinland allows testing to be performed on-site. In addition to providing compliance assessments, the test equipment records connected to points inside the clients' equipment during the sag.