

ZL-67

LEVEL 3 WATER WASHABLE FLUORESCENT PENETRANT

3级灵敏度水洗性荧光渗透剂

A high-sensitivity Level 3 penetrant, ZL-67 fluorescent water washable penetrant is safe for most alloys, such as aluminum, steel, nickel and titanium, which are used in aerospace and engineering applications. ZL-67 penetrant is commonly used to find flaws in investment castings, jet engine components, and highly machined surfaces. Non-water based, ZL-67 has a high flash point for use in open tanks. Recommended developers are ZP-4B dry powder, SKD-S2 or ZP-9F solvent-based, and ZP-5B suspendible developers.

ZL-67是3级灵敏度可水洗型荧光渗透剂。可以安全的用于大多数的工程和航空合金，例如铝、钢铁、镍、钛。可用于精密铸件、喷气式发动机组件以及精加工表面。非水基，高闪点，可以在敞开容器中使用。可采用ZP-4B干粉显像、SKD-S2和ZP-9F溶剂悬浮式显像剂、ZP-5B水悬浮式显像剂。

ZL-67 is listed on the QPL SAE AMS 2644 Qualified Product List and is approved for use by Pratt & Whitney.

ZL-67列入AMS 2644合格产品目录、普惠准入资格。

BENEFITS 优势

Improve indication detection

提高缺陷指示

- Clear, bright, indications appear every time due to high UV and thermal stability.
ZL-67具有优异的紫外稳定性以及热稳定性，可以提供明亮，清晰且重复性高的缺陷指示。
- Higher contrast indications form due to strong capillary action, making them easier to spot.
ZL-67还具有极强的毛细管渗透能力，使得缺陷指示具有高对比度，更易被检测出。

Wide range of inspections

应用范围广

- Inspect a wide range of high-value components without fear of corrosion or specification non-conformance.
适用于多种高价值工件，无需担忧腐蚀或者不符合标准。

Maximize operator comfort and safety

极高的舒适度和安全性

- Promotes better inspection quality by providing the operator with a more comfortable work environment.
ZL-67可提供一个更舒适的工作环境，从而提高检测质量。
- Reduces discomfort from strong odors.
减少强烈的刺激气味。
- Exceeds all EHS requirements
高于所有的EHS要求

More reliable, consistent inspections

提供可靠、一致的检测

- Maintain penetrant system performance over longer periods of time thanks to low volatility and high water tolerance.
低挥发性和高容水率，使ZL-67在长时间使用后仍能保持其性能。

FEATURES 特性

- Level 3 high sensitivity
3级灵敏度
- Water washable
可水洗
- Bright, high-contrast indications
高亮度、高对比度
- High flash point
高闪点
- Wide range of application methods
应用方法广泛
- Controlled washability
抗过清洗
- Low odor
低气味
- Very low toxicity
极低毒性
- Alloy compatibility
与合金相容性好
- High water tolerance
容水率高
- High thermal resistance
热稳定性好
- High UV stability
UV稳定性高
- Optimized capillary action
优异的毛细渗透能力
- Low volatility
低挥发性
- QPL SAE AMS 2644 Qualified Product List
列入SAE AMS 2644合格产品目录
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普惠准入资格

SPECIFICATIONS 符合规范

- AECL
- AMS 2644
- ASME BPVC
- ASTM E1417
- ASTM E165
- Boeing BAC 5423 PSD 6-46 or 8-4
- Boeing PS-21202
- GE P3TF2
- Honeywell EMS 52309
- ISO 3452-2
- MIL-STD-2132
- MIL-STD-271
- NAVSEA T9074-AS-GIB-010/271
- Pratt & Whitney PMC 4360
- QPL SAE AMS 2644

APPLICATIONS 应用

Defect location: open to surface

缺陷位置: 表面开口缺陷

Ideal for 适用于

- Precision castings 精密铸件
- Precision forgings 精密锻件
- Machined components 机加工件

Defect examples 缺陷类型

- Cracks 裂纹
- Seams 裂缝
- Porosity 气孔

PROPERTIES 属性

Flash Point 闪点	> 200°F / 93°C
Density 密度	0.96 g/ml
Viscosity 粘度 (100°F / 38°C)	19.45 cs
NPE-Free 不含烷基酚	Yes 是

USE RECOMMENDATIONS 使用推荐

NDT Method 无损检测方法	Penetrant Testing, Fluorescent 渗透检测, 荧光
Type 渗透液类型	1
Method(s) 去除方法	A/C
Sensitivity Level 灵敏度等级	3, high sensitivity 3级, 高级灵敏度
Required Equipment 设备要求	UV light source 紫外线光源
Temperature range 温度范围	40 - 125°F / 4 - 52°C

PACKAGING 包装形式

01-3274-50C	20 L pail 20升桶
01-3274-60C	200 L pail 200升桶

HEALTH AND SAFETY 健康和安全

Review all relevant health and safety information before using this product. For complete health and safety information, refer to the product Safety Data Sheet, which is available at www.magnaflux.cn.

产品使用前请阅读相关的健康和安全信息。完整的健康和安全信息参考 www.magnaflux.cn 上的SDS (安全数据表)。