

SKD-D30

SOLVENT BASED DEVELOPER

溶剂型显像剂

SKD-D30 is solvent-based developer that provide maximum sensitivity through its solvent action on the penetrant at the site of any defects. Supplied as a ready-to-use suspension of white developing particles in a fast-drying solvent, it produces an opaque white coating which makes an excellent contrasting background for penetrant indications for both fluorescent and visible inspection processes.

MAGNAFLUX® SKD-D30是溶剂型显像剂, 由于其作用于缺陷处的溶剂化效应, 能为渗透检测提供最高的灵敏度。该显像剂是一种快干型的白色悬浮液, 施加到工件表面后形成一层不透明的白色涂层, 能为缺陷指示提供鲜明对比的背景, 可用于荧光渗透和着色渗透检测。

BENEFITS 优势

Increases indication visibility

提高指示的可见度

- Improves indication detection by creating an optimal surface for penetrant indication formation.
为缺陷指示的形成建立一个极佳的表面状态, 提高指示效果。
- Bright white, opaque coverage blocks all underlying surface color and quickly draws penetrant to the surface for stronger, clearer indications.
白色的非透明涂层能紧紧锁住缺陷中保留的渗透剂, 并将渗透剂快速从缺陷中吸附到涂层表面, 形成清晰、鲜明的指示。

Application versatility

多样化的应用

- Can be used with a variety of Type 2 and Type 1 penetrants in many different situations without measuring or diluting.
可用于荧光渗透和着色渗透, 无需稀释, 直接使用。
- ISO 3452 conformance allows SKD-D30 to be used to inspect a wide range of parts.
符合ISO3452-2, 可用于检测各种工件。

Faster cleaning

快速去除

- Reduces inspection process time by minimising post-inspection cleaning.
检测后, 易于去除, 缩短整个流程的时间。

FEATURES 特性

- Bright white color
白度高
- Provides good background contrast
提供良好的背景反差
- Wicks penetrant out of indications
缺陷指示通过毛细血管作用显示
- Fast drying
快速干燥
- Easy to apply
施加容易
- Convenient, ready to use formula
即用型, 使用方便
- Very low toxicity
极低毒性
- Matte, opaque coating
不反光、不透明涂层
- Easy to clean
容易去除
- Maximum sensitivity
最高灵敏度
- Low in sulphur and halogens
低卤素及硫含量
- Contains no chlorinated hydrocarbons
不含卤代烃

APPLICATIONS 应用

Defect location: open to surface

缺陷位置: 表面开口缺陷

Ideal for 适用于

- Welds 焊接
- Machine shops 机械加工厂
- Field applications 外场检测

Defect examples 缺陷类型

- Cracks 裂纹
- Seams 裂缝
- Porosity 气孔

SPECIFICATIONS 符合规范

- ASME B & PV CODE, SEC V
- EN ISO 3452-2

COMPOSITION 成分组成

A blend of inert inorganic particles suspended in a solvent blend.
SKD-D30 is based on ethanol.

由无机粉末和乙醇组成悬浮液。

PROPERTIES 属性

Form and color 型式和颜色	White liquid 白色悬浮液
AMS 2644 class AMS 2644 分类	Form d – Type 1 Form e – Type 2
Flash Point 闪点 Aerosol 气雾罐 Bulk 桶装	-40 °C 12 °C
Sulphur content 硫含量	< 200 ppm
Chloride content 氯含量	< 200 ppm
Density 密度	0.94 g/cm ³

Like all Magnaflux materials, this developer is closely controlled to ensure batch-to-batch consistency, optimum process control and inspection reliability.

和美国磁通的每个材料一样, SKD-D30显像剂经过严格的工艺控制和检验, 确保每个批次的一致性。

USE RECOMMENDATIONS 使用推荐

Storage temperature 储存温度	-10 °C - 30 °C
Usage temperature 使用温度	-5 °C - 50 °C
Coverage 喷涂面积	10 - 15m ² per 400ml aerosol 10 - 15m ² / 罐 (400ml) 20 - 30m ² per litre 20 - 30m ² /L
Cleaners 清洗剂	SKC-S
Water-washable penetrants 水洗型渗透剂	AL-4B, ZL-420, ZL-425, ZL-440, SKL-WP2, ZL-15B, ZL-19, ZL-60D, ZL-67, ZL-56
Post-emulsifiable penetrants 后乳化渗透剂	SKL-SP2, ZL-2C, ZL-27A, ZL-37
UV lamps 黑光灯	EV6000, ST700

INSTRUCTIONS FOR USE 使用指南

Before using any developer, ensure the test surface is clean, free from excess penetrant, and dry. Residue from water-based penetrants can be removed with a water spray; solvent-based penetrants by wiping with a solvent cleaner.

施加渗透剂前, 请确保工件表面是干净并干燥的, 没有多余的渗透剂。水洗型渗透剂可以用水喷洗; 溶剂去除型渗透剂可以用溶剂清洗剂擦拭去除。

With visible penetrants, cracks will appear as red lines and porosity as spots. If you see a general reddish colour or pink film, that means the penetrant was not completely removed.

使用着色渗透时, 裂纹显示红色的线, 孔状缺陷显示红色的点。如果显示是成片的红色或者粉红色, 说明渗透剂没有清洗干净。

With fluorescent penetrants, indications will fluoresce bright yellow/green under UV light. If you see a general greenish film, that means the penetrant was not completely removed.

使用荧光渗透时, 在黑光灯下显示明亮的黄绿色荧光。如果显示是成片的带绿色的荧光, 说明渗透剂没有清洗干净。

If left to stand, the developer particles will settle out of suspension. SKD-D30 must be continually agitated/shaken during use to ensure uniformity of mix.

显像剂是悬浮液, 静置后显像粉会沉淀到底部。因此使用过程中要不断摇晃, 确保均匀。

Apply by spraying only (dipping or brushing will cause excessive solvent action) by aerosol or conventional spray gun. Spray in thin even layers which just wet the surface. Too wet a spray will cause excessive bleeding and running of indications; too dry a spray will result in slow indication development, as well as possible loss in overall sensitivity.

只能用喷涂的方式施加, 可用喷雾罐或合适的喷枪。浸涂或刷涂的方式不适合, 会导致过度的溶剂化效应。均匀的喷涂薄薄一层, 刚好覆盖工件表面即可。喷涂过多, 干燥太慢, 导致缺陷显示模糊; 喷涂过少, 干燥太快, 显示形成太慢, 并且可能降低整体灵敏度。

After inspection, remove developer residue by wiping with a cloth, or use a water and detergent wash.

检查结束后, 可用抹布擦除、水或洗涤剂冲洗去除表面多余的显像剂。

PACKAGING 包装形式

01-5355-78C

Aerosol can (case of 12) 气雾罐 (12罐/箱)

HEALTH AND SAFETY 健康与安全

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)。