

SK-3 Kit

Solvent-Removable Visible Penetrant Kit



The SPOTCHECK® SK-3 Kit is a portable visible penetrant inspection kit that includes:

- 2 x 400 ml aerosol cans of SKL-SP2 penetrant
- 3 x 400 ml aerosol cans of SKC-S cleaner
- 3 x 400 ml aerosol cans of SKD-S2 developer

SKL-SP2 is a solvent-removable visible penetrant designed for portability. Noted for its compatibility with special alloys, such as stainless steel, aluminum, magnesium and titanium, SKL-SP2 is highly reliable at locating surface-open flaws and discontinuities, and can be used on non-porous ceramics and similar materials.

SKC-S is a solvent cleaner/remover for pre-cleaning before testing and for removing excess surface penetrant from an inspection area before applying developer.

SKD-S2 is a non-aqueous developer that creates an opaque white background for high-contrast penetrant testing and quickly draws penetrant out to create stronger, clearer indications.

BENEFITS

Fastest inspection processing

- A convenient and easy-to-use solution for preventative maintenance and control checks.
- Quickly and completely covers the entire test surface due to high surface wetting.
- Remove excess penetrant without water to eliminate the need to dry parts before applying developer.

Dependable and convenient to use

- Easy to carry and use in the field with the convenient aerosol cans which are carefully designed for consistent, even coverage and maximum test area coverage
- Use in all conditions without the need for darkness or UV lights.

Wide application versatility

- Inspect a wide range of components without fear of corrosion.
- Meets AMS 2644 and is NDT-approved for professional industrial applications

Maximum indication detection

- Produces strong, vibrant indications thanks to the bright, vibrant red color, especially when used with SKD-S2 solvent-based developer

Maximise operator comfort and safety

- Promotes better inspection quality by providing the operator with a more comfortable work environment.
- Reduces discomfort from strong odours.
- Exceeds all EHS requirements, does not contain NPEs or phthalates

SK-3 Kit

APPLICATIONS

Defect location: open to surface

Ideal for:

- Castings
- Forgings
- Welds
- Pressure vessels
- Tubular goods
- General metal work
- Leak testing
- Use in power plants
- Construction applications.

Defect examples:

- Cracks
- Leaks

USER RECOMMENDATIONS

NDT Method	Penetrant Testing, Visible
Storage temperature	10°C to 30°C
Usage temperature	5°C to 55°C (bulk) -5°C to 50°C (aerosol)
Coverage	20 - 30m ² per litre 10 - 15m ² per aerosol

COMPOSITION

SKL-SP2: A blend of petroleum distillates, plasticiser and an oil-soluble organic red dye.

SKC-S: A blend of aliphatic petroleum distillates.

SKL-SP2: A blend of inert inorganic particles suspended in an isopropanol and acetone mix.

PRODUCT PROPERTIES

	SKL-SP2	SKC-S	SKD-S2
Form and colour	Red liquid	Clear colourless liquid	White liquid
AMS 2644 class	Type 2, Method B/C/D	-	Form d - Type 1 Form e - Type 2
Flash point	-40°C (aerosol) > 93°C (bulk)	-40°C (aerosol) 7°C (bulk product)	-40°C (aerosol) 6°C (bulk product)
Density	0.85 g/cm ³	0.72 g/cm ³	0.88 g/cm ³
Viscosity	3.8 mm ² /s	0.86 mm ² /s at 25°C	< 10 mm ² /s at 20°C
Sulphur content	< 300 ppm	< 300 ppm	< 300 ppm
Chloride content	< 300 ppm	< 300 ppm	< 300 ppm
Corrosion	Meets AMS 2644	Meets AMS 2644 Class 2	Meets AMS 2644

All Magnaflux materials are closely controlled to ensure batch-to-batch consistency, optimum process control and inspection reliability.

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SPECIFICATION COMPLIANCE

	SKL-SP2	SKC-S	SKD-S2
AMS2644	✓	✓	✓
ASME B & PV Code, Sec V	✓	✓	✓
ASTM D129	✓	✓	✓
ASTM 1135		✓	✓
ASTM E165/E165M	✓	✓	✓
ASTM E1417/E1417M	✓	✓	✓
EN ISO 3452-1	✓	✓	✓
EN ISO 3452-2	✓	✓	✓
MIL-STD-2132D	✓	✓	✓
MIL-STD-271F	✓	✓	✓
Pratt & Whitney PMC 4366		✓	
SAFRAN Pr 5000/ln 5000			✓

PACKAGING AND PART NUMBERS

The SK-3 Kit includes the following:

- 2 x 400 ml aerosol cans of SKL-SP2 penetrant
- 3 x 400 ml aerosol cans of SKC-S cleaner
- 3 x 400 ml aerosol cans of SKD-S2 developer
- 1 cloth
- 1 set of instructions
- 1 soft carrying case

The SK-3 kit is available as:

- Complete SK-3 kit - part number 008A038
- Carrying case only - part number 053C009

HEALTH AND SAFETY

Review all relevant health and safety information before using this product. For complete health and safety information, refer to the Safety Data Sheets, which are available at eu.magnaflux.com.