

## 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

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

	<b>SKL-SP2</b>	<b>SKC-S</b>	<b>SKD-S2</b>
<b>Form and colour</b>	Red liquid	Clear colourless liquid	White liquid
<b>AMS 2644 class</b>	Type 2, Method B/C/D	-	Form d - Type 1 Form e - Type 2
<b>Flash point</b>	-40°C (aerosol) > 93°C (bulk)	-40°C (aerosol) 7°C (bulk product)	-40°C (aerosol) 6°C (bulk product)
<b>Density</b>	0.85 g/cm <sup>3</sup>	0.72 g/cm <sup>3</sup>	0.88 g/cm <sup>3</sup>
<b>Viscosity</b>	3.8 mm <sup>2</sup> /s	0.86 mm <sup>2</sup> /s at 25°C	< 10 mm <sup>2</sup> /s at 20°C
<b>Corrosion</b>	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 1135		✓	✓
ASTM E165/E165M	✓	✓	✓
ASTM E1417/E1417M	✓	✓	✓
EN ISO 3452-1	✓	✓	✓
EN ISO 3452-2	✓	✓	✓
MIL-STD-2132D	✓	✓	✓
MIL-STD-271F	✓	✓	✓
PMUC		✓	✓
Pratt & Whitney PMC 4366		✓	
SAFRAN Pr 5000/ In 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 [www.magnaflux.eu](http://www.magnaflux.eu).