

SKD-S2

Solvent Based Developer

A bright white, non-aqueous developer, SKD-S2 creates an opaque white background for high-contrast penetrant testing and quickly draws penetrant out to create stronger, clearer indications for better inspection reliability and sensitivity.

Noted for its compatibility with special alloys, such as stainless steel, aluminum, magnesium and titanium, SKD-S2 is non-halogenated, can be used with Type 1 & Type 2 penetrants. This solvent-based developer meets aerospace and nuclear industry requirements, and complies with all major NDT specifications, including ISO 3452.

SKD-S2 helps speed up the inspection process by going on easily, drying quickly, promoting faster indication formation and minimizing post-inspection cleaning. It is ideal for machine shops, weld testing and field applications.

SKD-S2 is listed on the QPL SAE AMS 2644 Qualified Product List and is approved by numerous Aerospace Primes including, Boeing, GE and Honeywell.



BENEFITS

Increases indication visibility

- Improves indication detection by creating an optimal surface for penetrant indication formation
- Bright white, opaque coverage blocks all underlying surface color and quickly draws penetrant to the surface for stronger, clearer indications

Application versatility

- Can be used with a variety of Type 2 and Type 1 penetrants in many different situations without measuring or diluting
- ISO 3452 conformance allows SKD-S2 to be used to inspect a wide range of parts

Faster processing and cleaning

- Reduces inspection process time by minimizing post-inspection cleaning
- Easy-to-apply formula goes on cleanly, dries quickly and promotes faster indication formation to shave time off each step of the inspection process

FEATURES

- Bright white color
- Provides good background contrast
- Nonfluorescent
- Wicks penetrant out of indications
- Fast drying
- Easy to apply
- Convenient, ready to use formula
- Very low toxicity
- Matte, opaque coating
- Easy to clean

APPLICATIONS

Defect location: open to surface

Ideal for:

- Welds
- Machine shops
- Field applications

SPECIFICATION COMPLIANCE

- AECL
- AMS 2644
- ASME BPVC
- ASTM E1417
- ASTM E165
- Boeing BAC 5423 PSD 6-46 or 8-4
- Boeing PS-21202
- GE P3TF2
- GE P50YP107
- Honeywell EMS 52309
- ISO 3452-2
- MIL-STD-2132
- MIL-STD-271
- NAVSEA 250-1500-1
- NAVSEA T9074-AS-GIB-010/271
- QPL SAE AMS 2644

PROPERTIES

| | |
|-----------------|----------------------------|
| Density | Bulk: 7.5 lb/gal (870 g/L) |
| NPE-Free | Yes |

USE RECOMMENDATIONS

| | |
|----------------------------|---|
| NDT Method | Penetrant Testing |
| Form(s) | d/e |
| Coverage | 1 aerosol can will cover approximately 65 ft ² (6 m ²) |
| Usage Temperature | 40 to 125°F / 5 to 52°C |
| Storage Temperature | 50 to 86°F / 10 to 30°C |

INSTRUCTIONS FOR USE

SKD-S2 should be applied by spray only, since dipping or brushing will cause excessive solvent action on the penetrant in discontinuities. SKD-S2 may be applied by aerosol, or conventional spray gun. SKD-S2 must be agitated during use to ensure the developer particles remain suspended during processing.

Solvent-based developers like SKD-S2 should be sprayed in thin even layers, which just wet the surface. A heavy spray will cause excessive bleeding and running of indications; whereas too light a spray will result in slow indication development as well as possible loss in overall sensitivity due to limited solvent action.

HEALTH AND SAFETY

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.com.