## Inspection Certificate

Abnahmeprüfungszeugnis DIN EN 10204.3.1
Certificat De reception
Certificado di collaudo
Keuringsrapport

| | | | |
|---|---|---|---|
| **Batch Number** | **2203027** | **Product Name** | Spotcheck SKL-SP2 Red Penetrant |
| **Date of Manufacture** | 24/03/2022 | **B.B.E.** | 03/2027 |

### Specification: Specification

We hereby certify that when tested at the time of manufacture, the above material:

1. Meets the requirements of and has been tested for sulfur and halogens according to:

a) ASME Boiler and Pressure Vessel Code, 2019 Edition, Section V, Non-destructive Examination.

b) Anion analysis by ASTM D129 decomposition followed by Ion Chromatography method Annex A4.

c) ASTM E-165/E-165M-18, Paragraph 7.1.

d) MIL-STD-2132E, March 29, 2016, Paragraph 6.1.3.

2. Meets the requirements of EN ISO 3452-1, EN ISO 3452-2 (Sensitivity level 2), AMS 2644H and ASTM E 1417/E 1417M-21 Paragraph 5.1 & 6.5.1.

3. We further certify that the material does not contain mercury as a basic element and no mercury bearing equipment was used in its manufacture.

| Test | Section | Limit | Result |
|---|---|---|---|
| Specification | | | Passed |

### Specification: Ion Test Results

Test results obtained were as follows:

| Test | Section | Limit | Result |
|---|---|---|---|
| Sulphur Content | | | 9ppm |
| Halogen Content | | | 29ppm |

### Specification: AMS 2644H Penetrant Test Results

When sampled and tested according to paragraph 4.3.2 section 4.2.2.1 of AMS 2644H the following results were obtained:

| Test | Section | Limit | Result |
|---|---|---|---|
| Flashpoint (SMT 14) | 3.3.3 | | 107°C |
| Penetrant Removal | 3.3.8.6 | | Passed |
| Water Content (SMT 18) | 3.3.8.7 | | 0.02% |

### Specification: EN ISO 3452-2

When tested at the time of manufacture the following results were obtained. The information is derived from our quality checks. It does not relieve the purchaser from examining the product upon delivery and gives no assurance of the product for any particular purpose.

| Test | Section | Limit | Result |
|---|---|---|---|
| Appearance | 6.1 in EN ISO 3452-2 | Equal to standard | Passed |
| Density (SMT 50) | 6.3 in EN ISO 3452-2 | 0.806 – 0.890 g/cm3 @ 20°C | 0.862 g/cm3 |
| Flashpoint (SMT 14) | 6.5 in EN ISO 3452-2 | 93°C Min for Bulk | 107°C |
| Corrosive Properties | 6.11 in EN ISO 3452-2 | No Corrosion on Magnesium Alloy | Passed |
| Sulphur Content | 6.12 in EN ISO 3452-2 | <200ppm | 9ppm |
| Halogen Content | 6.12 in EN ISO 3452-2 | <200ppm | 29ppm |
| Water Content (SMT 18) | 6.20 in EN ISO 3452-2 | < 5% (Water Wash Pen Only) | 0.02% |
| Penetrant Sensitivity (SMT 15) | 6.2 in EN ISO 3452-2 | Level 2 | Passed |

| | | | |
|---|---|---|---|
| Viscosity | 6.4 in EN ISO 3452-2 | 3.40 – 4.14 mm2/s @ 38°C | 4.09 mm2/s |

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**Notes:**
1. Our batch number appears on the label of bulk containers. Aerosols have batch numbers printed on bottom of the container. Bulk materials have a minimum shelf life of 5 years from date of manufacture. Aerosols have a minimum shelf life of 3 years from date of manufacture.
2. Most specifications require test results stated in percent, but some require parts per million (ppm). To convert "percent" figures to "parts per million" move the decimal four places to the right.
3. MIL-STD-271, MIL-STD-2132 and ASME Sec V, all require that materials be subject to a procedure to evaporate off volatile solvents before analysis for Sulfur and Halogens. According to these specifications, only those residues higher than 0.005 g/100ml shall be analysed for Sulfur and Halogens. Lower residues shall be reported.
4. The above certification gives the results obtained at the time of manufacture. Age and use may alter the properties of any material.

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