Inspection Certificate

MANUFACTURE DATE: **08-11/12/2017**

Abnahmeprufzeugnis DIN EN 10204 3.1
Certificat De reception
Certificado di collaudo
Keuringsrapport

SUBJECT: **Spotcheck SKL-SP2 Red Penetrant Aerosol**

AEROSOL BATCH No: **171201**
B.B.E.: **DEC 2020**

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, 2004, 2007, 2010, 2013 & 2015 Edition, Section V, including 2005, 2006, 2008, 2009 & 2011a Addendum, Nondestructive Examination, Article 6 Paragraph T-641 & Article 24 as applicable. Anion analysis by ASTM D129 decomposition followed by Ion Chromatography method Annex A4.
   b) ASTM E-165/E-165M-12, Paragraph 7.1.
   c) MIL-STD-271F (SH), 27 June 86, Paragraph 5.3 and 5.3.1 including notice 1 Paragraph 5.6.1 (21 June 1993).
   d) MIL-STD-2132D, 11 February 2003, Paragraph 7.1, 7.1.2, 7.1.3 and Appendix C, Paragraph 40.

   Test results obtained were as follows:

   Sulfur: **0.0043** wt % of residue. **Chlorine + Fluorine:** **0.0020** wt % of residue.

Cleaner residue (See note 3)	g/100g	g/100ml

2. Meets the requirements of EN ISO 3452-1, EN ISO 3452-2 (Sensitivity level 2), AMS 2644F and ASTM E 1417/E 1417M-16 Paragraph 5.1 & 6.5.1.
   When tested according to paragraph 4.2.2 & 4.3.2 of AMS 2644F the following results were obtained:

   4.2.2.1 **Penetrant Tests**

Flashpoint (PMCC) (3.3.3)	:	103ºC
Viscosity (3.3.4)	:	3.73 mm^2/s (cSt) @ 38°C
Fluorescent Brightness (3.3.8.3.2)	:	N/A
Water tolerance Method A only (3.3.8.5)	:	N/A
Penetrant Removability (3.3.8.6)	:	Conforms

   4.2.2.2 **Emulsifier Tests**

Flashpoint (PMCC) (3.3.3)	:	N/A
Viscosity (3.3.4)	:	N/A
Water Content Method D only (3.3.9.6)	:	N/A

   4.2.2.3 **Developer Tests**

Developer Fluorescence (3.3.10.2)	:	N/A
Developer Removability (3.3.10.4)	:	N/A
Redispersibility (3.3.10.5)	:	N/A

   3.3.11.5 **Solvent Remover Tests**

Penetrant Removal (4.4.11.2)	:	N/A

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.

Certification is issued under the auspices of the Quality Assurance Manager.

(Authorised Employee)

For and on behalf of MAGNAFLUX (A DIVISION OF ITW LTD)

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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Inspection Certificate

SUBJECT: **Spotcheck SKL-SP2 Red Penetrant Aerosol** **BATCH No:** **171201** **B.B.E.:** **DEC 2020**

MANUFACTURE DATE: **08-11/12/2017**

Specification: EN ISO 3452-2

When tested at the time of manufacture the following results were obtained:

Einzeleigenschaft / ***Characteristic***	Ermittlungen nach EN ISO 3452-2 Abschnitt	**Anforderungen /** ***Quality requirement***	**Ergebnis /** ***Batch testing***
Appearance	6.1	Equal to Std	Pass
Sensitivity	6.2	Level 2	Pass
Density	6.3	0.806 ï 0.890 g/cm^3 @ 20°C	0.848 g/cm^3
Viscosity	6.4	3.24 ï 3.96 mm^2/s @ 38°C	3.73 mm^2/s
Flashpoint	6.5	93°C Min for Bulk	Bulk 103°C Aerosol -40°C
Washability	6.6	Equal to Std (Water Wash Pen Only)	N/A
Corrosive Properties	6.11	No Corrosion on Magnesium Alloy	Pass
Sulphur Content	6.12	< 200 ppm	43 ppm
Halogen Content	6.12	< 200 ppm	20 ppm
Water Content	6.20	< 5% (Water Wash Pen Only)	N/A

Vorstehende Angaben sind die Ergebnisse unserer Qualitätsprüfung. Sie entbinden den Käufer nicht von einer Eingangsprüfung und haben nicht die Bedeutung, die Eignung des Produktes für einen konkreten Einsatzzweck zuzusichern.

The above 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.

Certification is issued under the auspices of the Quality Assurance Manager.

Authorised Employee)

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