

ZChem Specialities Pvt. Ltd.

Global Pioneer in NDT Consumables & Equipment



Inspection Certificate (In accordance with EN 10204 Type-3.1)

Product: ZChek -PTW

Water Washable Penetrant For Visible Liquid Penetrant Inspection

Batch No.: 2501120

Mfg. Date: 01/25

We certify that the above product, when tested at the time of manufacturing meets the following requirements

- ASME Boiler and Pressure Vessel Code, 2010, 2013, 2017, 2019,2023 Edition section V, Nondestructive Examination including 2005, 2006, 2008, 2009b and 2011a Addenda Article-6 paragraph T-640 and Article 24 as applicable.
- ASTM E165/E165M-18, Paragraph 7.1
- ASTM E1417-21

Parameter	ASME Boiler & PV Code	Quality requirement	Batch Result
Sulfur	Sec.V	< 0.1%	0.0047 wt % of residue
Chlorine + Fluorine	Sec. V	< 0.1%	0.0025 wt % of residue

- IS 3658-2013
- EN ISO 3452-2-2021

Parameter	EN ISO 3452-2	Quality Requirement	Batch result
Appearance	6.1	Equal to standard	Pass
Sensitivity Test	6.2	Equal to standard	Pass
Density	6.3	0.86-0.90g/cc @ 29.5deg.C	0.90 g/cc @ 29.5deg.C
Viscosity	6.4	8.5- 9.5cSt @40 deg .C	9.42 cSt @ 40deg.C
Flash point	6.5	93deg.c for bulk	105 deg.C
Washability	6.6	Equal to standard	Pass

Ref No:ZSPL/SOP-05/F04

Sy.No. 11/2/6, Puradapalya Village Tavarekere Hobli, Bangalore, Karnataka - 562130, India Page 1 of 2

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Corrosive properties	6.11	No evidence of staining, pitting or any other corrosion on Magnesium Alloy	Pass
Sulfur Content	6.12	< 200ppm	44 ppm
Halogen Content	6.12	< 200ppm	23 ppm
Water Content	6.20	< 5%	3 %

• Internal quality Check

Parameter	Internal Check	Quality Requirement	Batch Result
Appearance	QC/TP/001	Equal to standard	Pass
Viscosity	QC/TP/013	8.5-9.5cSt @ 40deg.C	9.42 cSt @ 40deg.C
Density	QC/TP/002	0.85-0.90g/c @ 29.5deg.C	0.90 g /cc @ 29. 5deg.C
Flash point	ASTM D92	93deg.C for bulk	105 deg.C
Surface wetting test	QC/TP/012	Equal to standard	Pass
Miniscous spot test	QC/TP/011	< 4.0 mm	3.0 mm
Drying Test	QC/TP/011	No degradation	Pass
Color Contrast Test	QC/TP/011	Equal to standard	Pass

Notes

- 1. Bulk material has a minimum shelf life of 5 years and Aerosol has minimum shelf life of 3 years.
- 2 Most specifications require test results stated in percent, but some require parts per million (ppm). To convert percent to ppm, move the decimal four places to the right.
- 3. ASME Sec V, procedure states that 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 analyzed for Sulfur and Halogens. Lower residues shall be reported.

Signature

QC Chemist



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