

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

**Product: ZChek CL**  
**Solvent Cleaner for Liquid Penetrant Inspection**

**Batch No.:**240167

**Mfg. Date:** 01/24

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, 2021,2023 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%	Nil (ref.note-4)
Chlorine + Fluorine	Sec. V	< 0.1 %	Nil(ref. note-4)
Cleaner residue	Sec.V	0.005g/100ml	0.004g/100ml

- *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	0.71-0.75g/cc @29.5deg.C	0.73g/cc @29.5deg.c
Corrosive properties	6.11	No evidence of staining, pitting or any other corrosion on Magnesium Alloy	Pass
Sulfur Content	6.12	< 200ppm	Nil
Halogen Content	6.12	< 200ppm	Nil
Residue on evaporation	6.13	< 5mg per 100ml	4mg



- Internal quality Check

Parameter	Internal Check	Quality Requirement	Batch Result
Odor	QC/ISO/011	Equal to standard	Pass

## Notes

- Bulk material has a minimum shelf life of 5 years and Aerosol has minimum shelf life of 3 years.
- 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.
- 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*

**Manager Operations**

