



ZChem Specialities Pvt. Ltd.

Global Pioneer in NDT
Consumables & Equipment

NDT
MPI LPI PRODUCTS



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

Product: ZChek-CL

Solvent Cleaner for Liquid Penetrant Inspection

Batch No.:250860

Mfg. Date: 08/2025

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-23, Paragraph, 7.1,7.2.3,7.4,7.5,8.1,8.5,8.5.2,8.6.4,8.7,8.8.*
- *ASTM E1417-21, Paragraph, 5.1,5.3.2,7.2,7.2.2,7.3,7.3.3,7.4,7.5.*

Parameter	ASME Boiler & PV Code	Quality requirement	Batch Result
Sulfur	Sec.V	< 0.1%	Nil (ref.note-3)
Chlorine + Fluorine	Sec. V	< 0.1 %	Nil(ref. note-3)
Cleaner residue	Sec.V	0.005g/100ml	0.000 g/100 ml

- *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	0.71-0.75 g/cc @29.5 deg,C	0.74 g/cc @29.5 deg.c
Corrosive properties	6.11	No evidence of staining, pitting or any other corrosion on Magnesium Alloy	Pass
Sulfur Content	6.12	< 200 ppm	Nil
Halogen Content	6.12	< 200 ppm	Nil
Residue on evaporation	6.13	< 5mg per 100ml	0 mg

Ref No:ZSPL/SOP-05/F04

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- 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
Quality Chemist

