



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-CR

Class 2, Method C

Solvent Cleaner for Liquid Penetrant Inspection

Batch No.: 260592

Mfg. Date: 05/2026

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

- *ASME Boiler and Pressure Vessel Code, Section V, 2004,2007,2010,2013,2015,2017, 2019 and 2021,2023,2025 Edition, Nondestructive Examination, including 2005, 2006, 2008,2009b, and 2011a Addenda, Article 6 Paragraph T-641 and Article 24 as applicable.*
- *ASME Boiler and Pressure Vessel Code, 1995, 1998 and 2001 Edition, Section V Nondestructive Examination, including 1999, 2000, 2002 and 2003 Addenda, Article 6 Paragraph T-640 and Article 24 as applicable.*
- *ASME Boiler and Pressure Vessel Code, 1986, 1989 and 1992 Edition, Section V, Nondestructive Examination, Article 6 including 1992 Addenda, Paragraph T-625, 1993 Addenda Paragraph T-640 and Article 24 as applicable.*
- *ASTM E165/E165M-23, Paragraphs, 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, Paragraphs, 5.1,5.3.2,7.2,7.3,7.3.3,7.4,7.5.*

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	0.005 g/100 ml	0.000 g/100 ml

- *IS 3658-2013*
- *We further certify that the product meets the requirement of AMS2644 J and is approved by the U.S. Air Force and listed on QPL-AMS-2644.*
- *When tested according to paragraph 4.3.2, Sampling Plan A, the following test results were obtained:*

3.3.11.4 Remover Tests:

Parameter	AMS2644 J-Section	Quality requirement	Batch result
Penetrant removal	4.4.11.2.	Shall leave no residual penetrant than reference	Pass

Ref No: ZSPL/SOP-05/F-05

Page 1 of 2



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- **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	0.76-0.78 g/cc @29.5 deg, C	0.77 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	< 5 mg per 100 ml	0 mg

- **Internal quality check**

Parameter	Internal Check	Quality Requirement	Batch Result
Odor	QC/ISO/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
Quality Chemist



Ref No: ZSPL/SOP-05/F-05

Page 2 of 2



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