

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

Product: ZChek- F18W

Fluorescent Powder for Wet Method Magnetic Particle Inspection

Batch No.: 2504134

Mfg. Date: 04/25

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, 2021,2023 Edition Section V, Nondestructive Examination including, Article 7, including 2005, 2006, 2008, 2009b and 2011a Addenda, paragraph T-731, paragraph T-765 and Article -25 as applicable.*
- *AMS-3044H.*

Parameter	Test Method	Quality requirement	Batch Result
Contamination	AMS 3044G-3.2.1	No foreign material, scum, or agglomeration	Confirms
Color	AMS 3044G-3.2.2	Fluorescent in the yellow green range	Fluorescent yellow green
Particle size	AMS 3044G-3.2.3	< 98% of weight shall pass through 3in(76mm) diameter (Us standard) 325sieve	Confirms
Magnetic Extraction	AMS 3044G -3.2.4	Retain initial sensitivity and color	Confirms
Sensitivity	AMS 3044G -3.2.5	5 Hole indication	5 Hole indication
Durability	AMS 3044G -3.2.6	No degradation	No degradation

- *ASTM E1444/E 1444M-22 Paragraph, 5.5.1,5.5.3,5.5.3.1&5.5.4.*
- *ASTM E3024/E3024M-22A.*
- *ASTM E709-21, Paragraph, 8.1,8.1.2,8.1.3,8.2, 8.3.4, 8.4, 8.4.4, ,8.5,8.5.3,8.5.4&8.5.4.2.*



• **EN ISO 9934-2-2015.**

Parameter	EN ISO 9934-2	Quality requirement	Batch Result
Performance	7.1	Indication on Reference block-1 Reference block-2	Pass Length-6 cm
Colour	7.2	Fluorescent Yellow green	Color identical
Particle size	7.3	$d > 1.5 \mu\text{m}$ - $d < 40 \mu\text{m}$	$d_l(10\%) = 7.41 \mu\text{m}$ $d_a(50\%) = 16.10 \mu\text{m}$ $d_u(90\%) = 33.21 \mu\text{m}$
Fluorescence coefficient	7.5	$> 1.5 \text{ cd/W}$	2.3 cd/W
Storage stability	7.13		5 years

Notes

1. Bulk material has a minimum shelf life of 5 years and Aerosol has minimum shelf life of 3 years.
2. EN ISO 9934-2 (7.15) specification require test results stated in ppm, but some require in percentage. To convert ppm to percentage, divide the ppm value by 10,000.

Signature
Quality Chemist

