

Certificate of Analysis

(according to EN ISO 3452-2)

Product NORD-TEST Penetrant U88
 Ref.-No. 121.300.201 – 500 ml aerosol can
 Batch-No.: 40953
 Shelf life: 03/2027

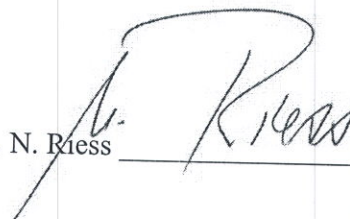
Individual Quality	Determination acc. to the ISO 3452-2 Section:	Requirements	Results
Appearance	6.1	Shall be same as that of the type test material	Requirement met
Sensitivity	6.2	Penetrant system II A e / C2 e / E e NORD-TEST Reiniger U87, Ch. Nr.: R41114 NORD-TEST Entwickler U89, Ch. Nr.: R41508	Sensitivity level II
Density	6.3	Max. $\pm 5\%$ of the sample test material	0,8934 g/cm ³ requirement met
Viscosity	6.4	Max. $\pm 10\%$ of the sample test material	11,2 mm ² /s bei 20°C requirement met
Flash Point in a closed Cup	6.5	Max. 5°C below the sample test material	98°C, requirement met
Corrosive Performance	6.11	For Aluminium alloy AW 7075 Magnesium alloy AZ -31B and steel 30CrMo4: No stains, pitting, sings of corrosion (with a 10-fold magnification)	requirement met
Sulphur content	6.12	< (200 \pm 10) ppm	20 ppm requirement met
Halogen content	6.12	< (200 \pm 10) ppm	20 ppm requirement met

Heidgraben, 29.03.2023

Dipl.-Ing A. AL-Ajeel



Prof.h.c. Dr.h.c. N. Riess




Certificate of Analysis

(acc. to EN ISO 3452-2)

Product NORD-TEST U89 Developer
 Ref.-No. 121.300.701 in 500 ml spray can
 Batch No.: R42124
 Shelf life: 10/2027

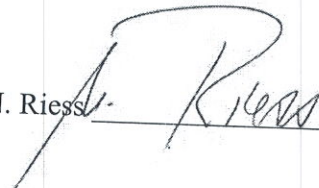
Individual Quality	Determination acc. to EN ISO 3452-2 Section:	Requirements	Results
Appearance	6.1	Shall be same as that of the type test material	Requirement met
Sensitivity	6.2	Penetrant system II/III A e / C2 e NORD-TEST U88, Ch. Nr.: 42120 NORD-TEST ROT 3000, Ch. Nr.:41838 NORD-TEST Reiniger U87, Ch. Nr.:R41965	Sensitivity level 2
Flash point in a closed cup (DIN 51755/51758)	6.5	In case of the batch test 5°C of the sample test material at a maximum	4°C, Requirement met
Corrosive Performance	6.11	For aluminum alloy EN AW 7075, magnesium alloy AZ -31B and steel 30CrMo4: No stains, pitting, sings of corrosion (10-fold magnification)	Requirement met
Sulphur content	6.12	< (200±10) ppm	90 ppm Requirement met
Chloride-/ Fluoride content	6.12	< (200±10) ppm	66 ppm Requirement met
Portion fo the dry matter (only for Form d and e)	6.13	In case of the batch test ±10% of the sample test material at a maximum	14,6 g Requirement met
Performance of the Developer (except for Form e)	6.15	Fine, even, non-reflecting or fluorescent top coat/increase in the perceptibility of the indications	Requirement met
Dispersivity (only for Form c and d)	6.16	Solid matters should quickly redisperge upon shaking (in the case of aerosol cans after 30s at the latest)	Requirement met
Specific gravity of the carrier liquid (only for Form d)	6.17	In case of the batch test ±5% of the sample test material at a maximum	0,7845 g/cm ³ Requirement met
Particle size distribution	6.19	Indication of the diameter 10% < d _l 50% > d _a and 50% < d _a 10% > d _u	d _l =0,49 µm d _a =2,03 µm d _u =5,45 µm Requirement met

Heidgraben, 27.10.2023

Dipl.-Ing A. AL-Ajeel



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Certificate of Analysis

(acc. to EN ISO 3452-2)

Product: NORD-TEST Cleaner U 87
 Ref.-No.: 121.300.101 – 500 ml spray can
 Batch No.: R41965
 Shelf life: 09/2027

Individual Quality	Determination acc. to EN ISO 3452-2 Section:	Requirements	Results
Appearance	6.1	Shall be same as that of the type test material	Requirement met
Sensitivity	6.2	Penetrant system II/III C2 e NORD-TEST U88, Ch. No.: 40953 NORD-TEST Rot 3000, Ch. No.: 41838 NORD-TEST U89, Ch. No.: R41845	Sensitivity level 2
Specific gravity (DIN 51757 at 20°C)	6.3	In case of the batch test ±5% of the sample test material at a maximum	0,7893 g/cm ³ Requirement met
Flash point in a closed cup (DIN 51755/51758)	6.5	In case of the batch test 5°C of the sample test material at a maximum	12°C, Requirement met
Corrosive Performance	6.11	For aluminum alloy EN AW 7075, magnesium alloy AZ -31B and steel 30CrMo4: No stains, pitting, sings of corrosion (10-fold magnification)	Requirement met
Sulphur content	6.12	< (200±10) ppm	10 ppm Requirement met
Chloride-/ Fluoride content	6.12	< (200±10) ppm	20 ppm Requirement met
Evaporation residue (only for methods C/E)	6.12	Remaining material mass < 5mg	Requirement met

Heidgraben, 12.09.2023

Dipl.-Ing A. AL-Ajeel



Prof.h.c. Dr.h.c. N. Riess

