



CONTRAST (RED-WHITE) PENETRANT TESTING

NORD-TEST PENETRANT SYSTEM

The **NORD-TEST** penetrant system is widely applied for parts testing in engineering and automobile industry, ship and boiler building, welding, etc. within a temperature range from -5°C to +50°C.

In order to assure the proper sensitivity while testing at low temperature (from -5 °C to +10 °C) it is necessary to increase the penetration time according to the requirements of EN ISO 3452-6.

For testing at higher temperature (from 65° C to 180° C) the SUPER-CHEK penetrant system has been developed specially.



The **NORD-TEST** penetrant system was tested and approved in accordance with EN ISO 3452-2, KTA and meets the requirements of Lloyd's Register of Shipping, Bureau Veritas, Bureau Central Hollandais, Germanischer Lloyd, MIL-I-25135/QPL-25135, AMS 2644, ASME Boiler and Pressure Vessel, ASTM E165 und ASTM E1417. The low content of sulfur and halogens was ascertained and confirmed according to ASTM E 165-02 and ASTM D 516-02, as well as to requirements of KWU and EN ISO 3452-2.

Product name	Sensitivity level DIN EN ISO 3452-2	Removal method	Product information
NORD-TEST Cleaner U 87	NA <u>Delivery form:</u> Spray can 500 ml Can 1 L Can 10 L Cask 200 L	NA Art.No.121.300.101 Art.No.121.300.102 Art.No.121.300.103 Art.No.121.300.104	Environmentally safe alcohol based cleaner. Class 2 - Nonhalogenated solvent remover. Fast evaporating without residues.
NORD-TEST Kontrastrot U88 Penetrant	Level 2 (high sensitivity) <u>Delivery form:</u> Spray can 500 ml Can 1 L Can 10 L Cask 200 L	A - water washable; C - solvent removable; E - water and solvent removable Art.No.121.300.201 Art.No.121.300.202 Art.No.121.300.203 Art.No.121.300.204	Highly sensitive, deep red penetrant (Type II) with good wetting properties. Well washable. Practically odor-free.
NORD-TEST Rot 3000 Penetrant	Level 2 (high sensitivity) <u>Delivery form:</u> Spray can 500 ml Can 1 L Can 10 L Cask 200 L	A - water washable; C - solvent removable; E - water and solvent removable Art.No.121.300.301 Art.No.121.300.302 Art.No.121.300.303 Art.No.121.300.304	Red, fluorescent penetrant (Type III) without azo dye. Biodegradable. Very well washable. Practically odor-free. Fluorescent under UV irradiation for brilliant indications.
NORD-TEST FP 90 blue N Penetrant	Level 2 (high sensitivity) <u>Delivery form:</u> Can 200 ml Can 1 L Can 10 L	A - water washable; C - solvent removable; E - water and solvent removable Art.No.122.500.125 Art.No.122.500.122 Art.No.122.500.123	Blue-fluorescent penetrant (Type I). Non-hazardous (no labelling required). Intrinsic color: transparent uncolored. For special applications to avoid discoloration of sensitive surfaces.
NORD-TEST Food Penetrant	Level 2 (high sensitivity) <u>Delivery form:</u> Can 1 L	C - solvent removable Art.No. 124.000.102	Blue penetrant in food quality – safe for testing in food preparation and storage areas. Highly sensitive. Also usable for conventional industrial applications.
NORD-TEST Developer U 89	NA <u>Delivery form:</u> Spray can 500 ml Can 1 L Can 10 L Cask 200 L	NA Art.No.121.300.701 Art.No.121.300.702 Art.No.121.300.703 Art.No.121.300.704	Fine-grained white powder suspension on alcohol base. Flavoring free. Short drying time. Forms a thin and homogenous layer.

NORD-TEST Set 12 x 500 ml

Delivery form:
1 carton with 12 spray cans
Digitally signed by Rîschiton Victor
Date: 2023.02.27 09:18:22 IST
Reason: MoldSign Signature
Location: Moldova



1 set contains:
6 spray cans NORD-TEST Cleaner U87
2 spray cans NORD-TEST Rot 3000
4 spray cans NORD-TEST Developer U89
Digitally signed by Paltan Mihail
Date: 2023.05.11 17:41:42 EEST
Reason: MoldSign Signature
Location: Moldova



CERTIFICATE

Management system as per
DIN EN ISO 9001 : 2015

In accordance with TÜV NORD CERT procedures, it is hereby certified that

Helling GmbH
Spökerdamm 2
25436 Heidgraben
Germany



with the location / sites according to the annex

applies a management system in line with the above standard for the following scope

Design, production and sales of test instruments, customized systems and consumables for the field of non-destructive testing and also production and sales of equipment and consumables for the sector of police and criminal techniques

Certificate Registration No. 44 100 140554
Audit Report No. 3523 5524

Valid from 2022-05-14
Valid until 2025-05-13
Initial certification 1997


Certification Body
at TÜV NORD CERT GmbH

Essen, 2022-04-16

This certification was conducted in accordance with the TÜV NORD CERT auditing and certification procedures and is subject to regular surveillance audits.

TÜV NORD CERT GmbH

Langemarckstraße 20

45141 Essen

www.tuev-nord-cert.com



Digitally signed by Paltis Mihail
Date: 2023.05.11 17:42:26 EEST
Reason: MoldSign Signature
Location: Moldova



R41771/06/2023
MHD 06/2027

40569/01/2023
MHD 01/2027

R41771/06/2023
MHD 06/2027

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MHD 01/2027

HELLING

NORD-TEST | Penetrant testing system | Developer U 89

GB

Non-destructive penetrant testing system for leak and surface defect detection on all ferrous and non-ferrous metals, alloys, ceramics, composites, no halogens or sulphur. For polymers and other materials, check suitability by testing to DIN EN ISO 3452-2, DIN EN 571, KTA. Conforms to Lloyd's Register MIL-1-25135/OP1 -25135, Bureau Veritas, Bureau Central Hollandais, Gemmaischer DNF und ASTM E1417. Testing for the absence of Cl and S is carried out according to EN ISO 3452-2 or the ASME code.

Applications:

aircraft industry, general engineering, vessel engineering, shipbuilding, oil and apparatus engineering, welding, steelworks, automotive industry, food processing, medicine, electrical engineering
The penetrant testing system consists of three components:
Kontrastrot U 87
Developer U 88 / Rot 3000 penetrant
Developer U 89

Instructions for use:

Remove any oil, grease or other contamination with the cleaner U 82. Spray on Kontrastrot U 88 or Rot 3000. The substance penetrates into surface flaws in 1-30 min.
Wipe off excess penetrant from the surface using either cloth wipe with water or water. Afterwards, dry the surface.
Apply Developer U 89. Any flaws become visible and darken after a short time.
Make well before use
Industrial use only.
Use for filling and bath use. — see base or top of can.

NORD-TEST | Metoda de testare infiltranta

ROM

System nedistructiv de testare a erorilor care si a fisurilor de suprafata pe toate metalele feruginoase si neferuginoase, ceramice, compozite, ceramice si aliaje. Pentru polimeri si alte materiale, verifica compatibilitatea.
Nu contin halogeni sau sulf.