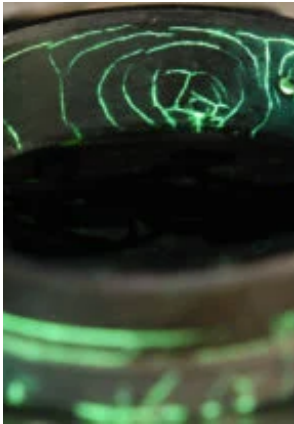


PENETRANT TESTING



Photos: Helling, Heidgraben

One-Stop Inspection Capabilities with Expert Penetrant Testing

At VCxray Inspection Services, you will find a comprehensive testing center: as a service provider, we offer a range of testing procedures, including penetrant testing (PT), also known as dye penetrant testing or red-white testing. This is a fundamental method of non-destructive testing (NDT) that is used in almost all industries.

With our specialized stationary and mobile equipment, you can rely on our team to carry out thorough inspections. These help you to detect surface defects such as cracks and pores in critical components and to prevent material failures that could lead to costly downtime, reduced safety or catastrophic consequences.

The Process



Our Service

Our penetrant testing services include manual testing at our or our customers' sites for large components and semi-automatic testing for smaller parts and larger quantities.

We use two proven methods to meet your specific requirements: fluorescence penetrant testing under UV light for increased sensitivity and classic penetrant testing (red-white) for components with less stringent requirements, for example.

Which standards are met?

We comply with DIN ISO 3452-1. This is used primarily for metallic materials, but can also be carried out on other materials, provided they are not excessively porous (castings, forgings, welds, ceramics, etc.).

The tests are carried out by qualified, certified personnel according to DIN EN ISO 9712 levels 2 and 3 and/or qualified personnel according to DIN EN 4179 levels 2 and 3.

"With penetrant testing, we help our customers detect even the smallest surface defects before they become costly problems. At VCxray, we're committed to delivering precision and reliability for industries where safety is non-negotiable."

Steffen Buchmüller, Managing Director,
VCxray Inspection Service GmbH

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How your operations benefit from Penetrant Testing

✓ VERSATILITY

Suitable for a wide range of materials, including castings, forgings, ceramics and weld seams.

✓ HIGH SENSITIVITY

Effectively identifies even the smallest surface defects, ensuring reliability in critical components.

✓ SIMPLICITY & SPEED

Quick to perform with straightforward, easy-to-interpret results.

✓ COST EFFICIENCY

A highly economical solution for comprehensive materials testing without compromising on quality.



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