Testimonial | Carestream NDT INDUSTREX Eco-friendly Chemicals

Valvosider Takes Another Step Toward Safety

As Italian valve manufacturer Valvosider S.r.l continues to grow, it keeps a watchful eye on complying with health, safety and environmental (HSE) standards. When Carestream NDT received certification from the Federal Institute for Materials Research and Testing (BAM) for its INDUSTREX films processed in INDUSTREX eco-friendly chemicals, Valvosider got on board.

The company's HSE department found the chemicals to be HSE-critical, says Emilio Ferrari, who is responsible for Valvosider's Nondestructive Evaluation (NDE) Department.

With in-house capabilities for non-destructive testing (NDT), machining, assembling, testing, and painting, Valvosider supplies valves for customers around the world. The family-owned business, which was founded in 1951, serves the oil and gas, petrochemical, and chemical industries as well as power plants. Its client roster includes several renowned global gas service station players.

Typically, valves control a medium in a pipeline – gas or steam, for example. If a valve fails, a line can stop working and possibly endanger the environment. NDT plays a crucial role in identifying and locating flaws and distinguishing material conditions that could lead to a malfunctioning valve. Since the method is non-destructive, materials and parts can be inspected and measured without damage, enabling quality control. Valvosider, which has a dedicated site for non-destructive testing, ensures its products meet international standards and work as flawlessly as possible.

Meeting Industry Standards

In order to meet industry and customer expectations, Valvosider is committed to using chemicals that are less harmful to humans and the environment.

"That objective helped us obtain the certification ISO 14001 2015 (environmental management system) for design and manufacture of industrial valves through mechanical processing, non-destructive testing and heat and surface treatments assembly and testing," Mr. Ferrari said.

Carestream NDT's eco-friendly photochemicals – the INDUSTREX DX Developer and the INDUSTREX FX Fixer – fit with those expectations. Carestream NDT recently developed and added the environmentally friendly processor chemicals to its line of INDUSTREX products that are specially formulated to deliver optimal results with all Carestream NDT film products.

The photochemicals are fully Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) compliant, and minimize impact on users and the environment. Suitable for use with all NDT processing systems, the chemicals are odor-free and can be used for manual or automatic processing. With a shelf-life of 24 months, the highly concentrated solutions reduce packaging waste.

"Carestream NDT has been able to keep the same processing parameters and the same dilution as the standard chemistry for these photochemicals, while maintaining the same parameters of sensitometry and granulometry for its films. In other words, it does not change image quality. We also found a significant advantage on processor maintenance," Mr. Ferrari said.

In fact, there is less cleaning effort for silver deposits. The processed film expectancy is unaffected, ensuring secure archiving.

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A Commitment to Innovation

For Valvosider, BAM-certified products from Carestream NDT were important to obtain ISO 17025 certification, Mr. Ferrari said. The accreditation is an essential aspect of product development and validation. With the ISO 17025, non-destructive testing labs like Valvosider's can assure customers that they generate valid results.

Having a productive relationship with Carestream NDT helps Valvosider meet the needs of its end users. Carestream NDT is known for listening to its customers and solving their challenges with a solutions-based approach.

"Carestream takes our voice into account," Mr. Ferrari said.

Benefits of Carestream NDT's INDUSTREX DX Developer and INDUSTREX FX Fixer:

Eco-friendly

- REACH compliant
- Odorless hydroquinone-free developer
- Borate-free fixer
- Recyclable containers and packaging
- Developer works with ascorbic acid

Reliable

- Both chemicals can be used for manual or automatic processing
- Less cleaning for silver deposits
- Suitable with all NDT film processing systems
- Maintains processed film life expectancy

Cost-effective

- Highly concentrated solution (makes up to 40 liters)
- Shelf-life of 24 months
- Ensures secure archiving

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