



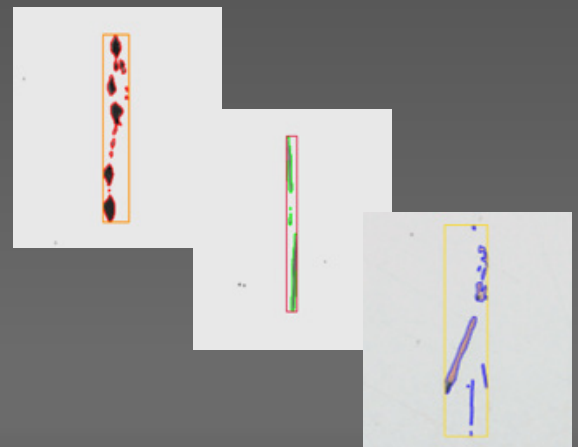
## LAS X Steel Expert – Rapid and Reliable Rating of Non-Metallic Inclusions

# RATE STEEL INCLUSIONS WITH A FAST, INTUITIVE SOLUTION

Both experts and non-experts benefit from the easy-to-use Steel Expert software. It is simple to learn and in a short time you are able to work productively.

With only a few clicks, you can achieve reproducible and reliable inclusion analysis. The color-coded visualization enables easier differentiation of inclusions, even for difficult cases. LAS X Steel Expert generates analysis reports in various output formats, such as pdf, excel (easily customized), and csv (analysis results quickly imported into a database).

Always keep your analysis up-to-date. LAS X Steel Expert supports a comprehensive range of regional and international standards. You can obtain licenses for the specific, current standards you need. Also, custom-defined analysis standards for company needs can be created. This way you can quickly react to changing requirements and stay ahead of the competition.



### International & regional standards covered

- ISO 4967
- ASTM E 45
- DIN 50602
- EN 10247
- JIS G0555
- GB/T 10561
- SEP 1571
- KSD 0204
- IS 4163
- Customizable Company Specific Standards (CCSS)

### References

[Application Notes for Steel Expert and LIBS on inclusion rating](#)

# ANALYSIS OF EXOGENEOUS AND ENDOGENEOUS NON-METALLIC INCLUSIONS (NMIS)



## Sample Preparation

Select samples according to a standardized sampling process.  
Prepare clean and smooth surfaces.



## Data Acquisition

Acquire multiple large specimen areas with specific types of inclusions. Identify faster preparation artifacts with different contrast methods. Use mosaic images to note sample conditions at the time of analysis. Save space to store more samples.



## Digital NMI rating

Analyze inclusions by automatically applying traditional stereological and digital analytical methods. Do analysis according to various official standards and company-defined norms



## Reporting of results

Generate reports with Excel-based templates. Customize templates to company specific layouts and reporting needs.



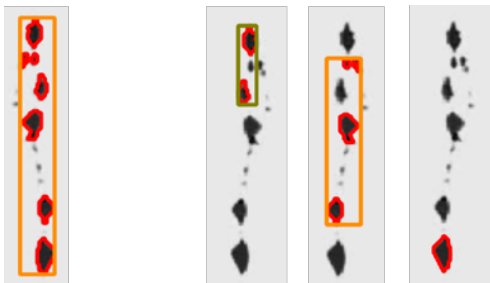
## High quality products

Stay confident about delivering high quality products to your customers.



## Benefit: Analyze according to your company's standards

Utilize an optional add-on of the LAS X Steel Expert software to define company specific standards. With this add-on, you can react quickly to minor changes in official standards, e.g. updated parameter values. Differences in results are tracked during parallel analysis with different standards or standard settings.



**Example:** Differences in stringer formation caused by a reduction of the aspect ratio which is used to discriminate globular and elongated particles.

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