

25. November 2021

Expert meeting cos-alpha 2021



Residual stress specialists discuss special topics

X-ray residual stress determination using the cos-alpha method is becoming increasingly important in German professional circles as well.

With the μ -X360s, sentenso offers an X-ray stress analyser with area detector for fast and mobile residual stress analysis using the cos-alpha method. However, since the corresponding evaluation method is still quite young, sentenso organises one expert meeting and one user meeting each year. The upcoming expert meeting with residual stress specialists from science and research will take place online due to the pandemic.

The following topics on the cos-alpha method will be discussed, among others:

- Advantages and limitations compared to the $\sin^2\psi$ method
- Inclusion in VDA Recommendation VDA 236-160 and VDFI Guideline 8501
- Forthcoming publication of the Japanese standard SMS-SD-14-20 in English language
- Inclusion in the new Handbook on Residual Stress to be prepared by ASM International

