

## Measurements on hot surfaces with **PMI-MASTER Smart**

**From: Wilhelm Sanders**  
Product Manager OES

ASM No. 959  
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**To: All OES sales / territory managers and distributors**

Dear colleagues,

I am pleased to announce, that we are able to measure material compositions on hot steel surfaces up to 300 °C (572 °F) with our very mobile OES analyzer **PMI-MASTER Smart**. A typical application for this feature is to meet the requirements of API 939-C, where customers typically do not want to shut down their petrochemical plant to inspect the low alloy tubing system for low silicon contents.

The attached application note OESAN 38V1 describes in details the necessary steps to achieve good results.

Here a summary:

- Max. Temperature: 300 degrees of Celsius (572 Degrees of Fahrenheit)
- Sample preparation necessary
- **No special calibration needed!** Just activate wire mode (set it to 5 measurements, erase first 2-3 measurements (or until you get stable readings)
- Do not use rubber seals!
- Only spark analysis gives reliable results (so you will need argon)
- Carry out pauses between analyses to let cool down probe

If you have any questions regarding this ASM, do not hesitate to contact me.

Best regards,

A handwritten signature in black ink, appearing to be "W. Sanders", written in a cursive style.

Wilhelm Sanders