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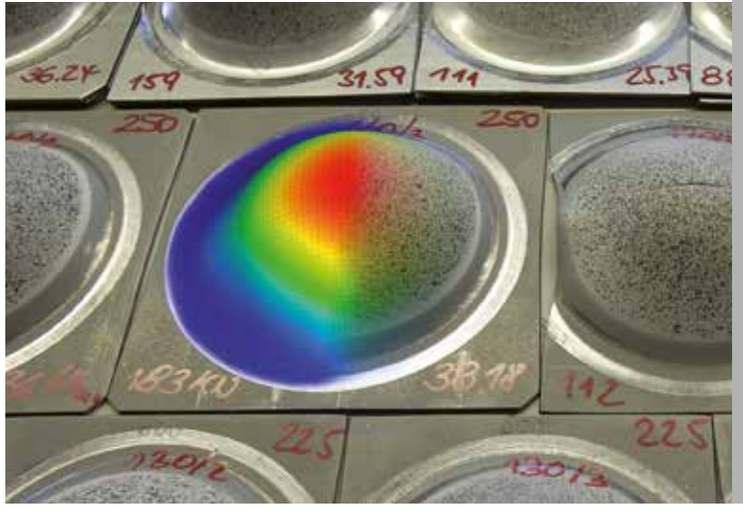

SALZGITTER FLACHSTAHL
A Member of the Salzgitter Group

SALZGITTER MANNESMANN FORSCHUNG
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COMDas
Customer Online Material Data System

SALZGITTER AG
Stahl und Technologie

SALZGITTER AG
Stahl und Technologie

COMDaS

Customer Online Material Data System

Salzgitter Flachstahl actively supports its customers in their material selection processes, and this support starts in the early development process.

In the past, customers could view basic information such as chemical composition, mechanical-technical parameters, and delivery forms online through the product range.

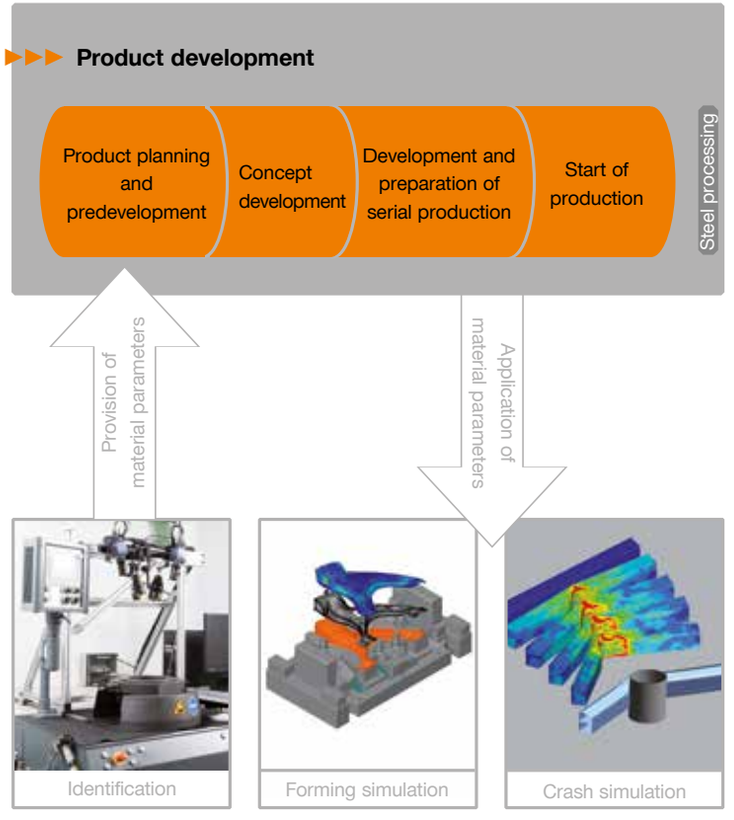
With the new COMDaS online material database, Salzgitter Flachstahl, together with Salzgitter Mannesmann Forschung, is handling current and future customer demands. This customer-oriented database provides comprehensive material characteristics and allows accurate assessments of the material's potential and predictions of the material or component behavior based on simulations.

The grades provided in COMDaS

- are characterized in accordance with SEP1240 (steel-iron testing guidelines)
- are representative of the Salzgitter Flachstahl product range
- include the latest steel grades for automobile manufacturing

The COMDaS material data

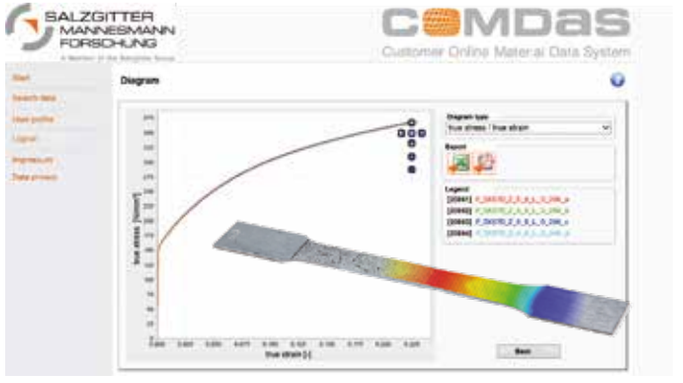
- form the basis for meaningful forming simulations
- are supplemented with program-specific material cards from the current simulation software (AutoForm, PamStamp, Pam-Crash, LS-Dyna)



Already in the early development process COMDaS helps to identify the potentials of a material and to predict the material and component behaviour by means of simulation.

COMDaS-Online provides the results of the following examinations

- Chemical analysis
- Tensile test
- Forming limit diagram
- High-speed tensile test
- Cyclic characteristics



The experimentally determined data can provide information about the behaviour of the material by means of simulation.

Taking the dissemination of the material data via data transmission a step further, the COMDaS database material characteristics can now be downloaded at any time after a free, one-time registration on the homepage

www.comdas-online.de