OPERATIONS INTELLIGENCE FOR STEEL PRODUCTION
INDUSTRIAL EQUIPMENT

Improve Plant and Furnace Efficiencies to Increase Profits

DELMIA's Operations Intelligence for Steel Production solution enables steel producers to optimize their shop floor processes and improve product quality.

DELMIA Operations Intelligence for Steel Production enables companies to improve operational efficiency of their steel plants with a closed loop continuous improvement process. It is a proven and scalable execution and production intelligence solution that enables steel manufacturers to further optimize their blast furnace parameters and improve product quality.
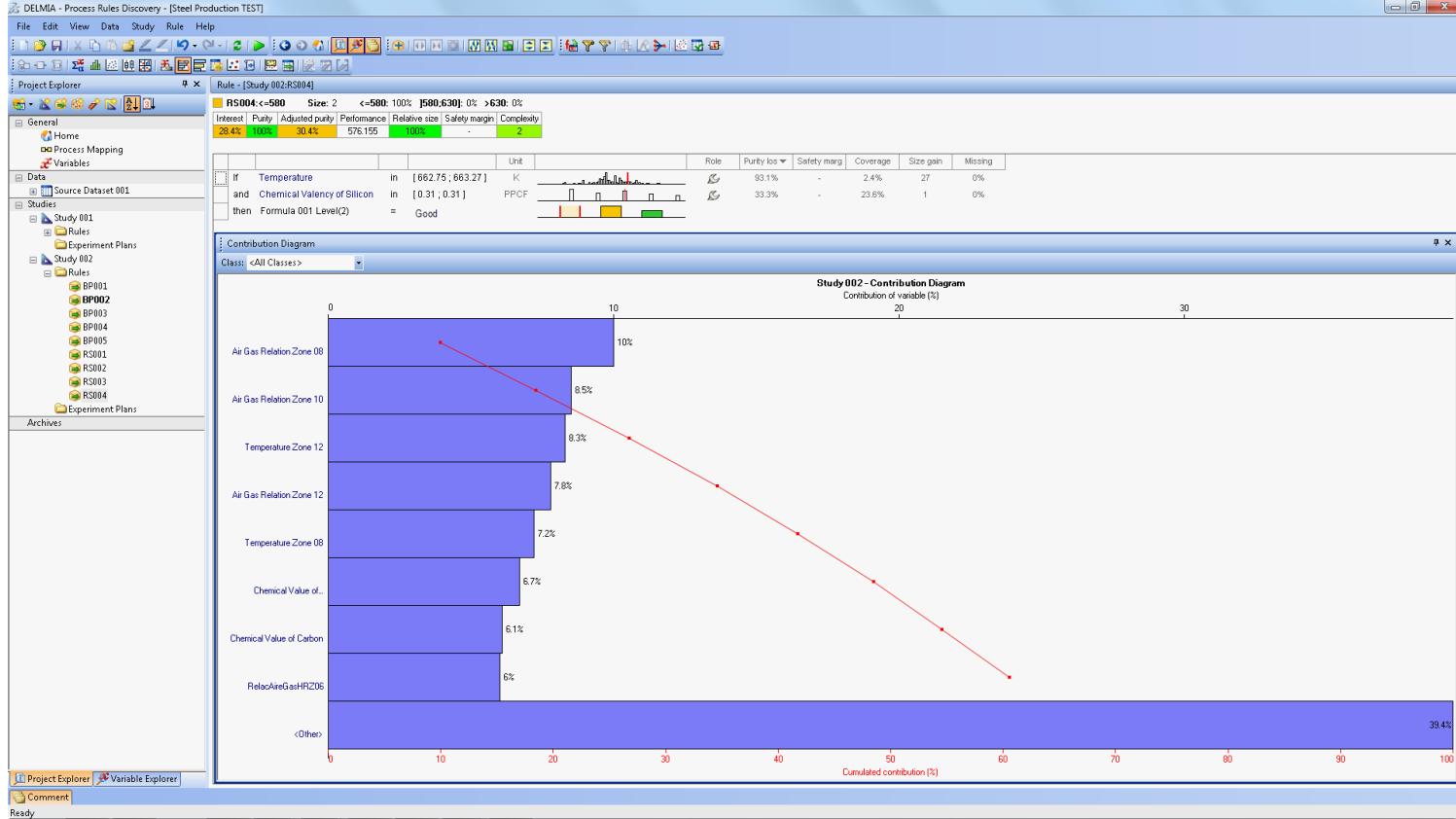
Rules can be extracted from furnace performance data that explain the reason for previously unexplained anomalies. The rules are automatically generated using a patented pattern recognition algorithm that can discover hidden relationships between furnace parameters and the quality of the steel produced. These rules provide valuable information to process experts without requiring in-depth knowledge of math and statistics.

DELMIA's Operations Intelligence for Steel Production solution is an innovative way to maximize the operational efficiency of furnaces, capture best practice manufacturing knowledge and mitigate scrap and rework.

Capture recommended raw material ingredient blends.

Monitor furnace data to quantify the risk of defects.

INDUSTRY CHALLENGES

- How to increase operational efficiency?
- How to manage raw materials efficiently to mitigate loss of production?
- How to adopt best practices to protect the environment?
- How to reduce unexplained production irregularities?

SOLUTION HIGHLIGHTS

- Identify production parameter patterns leading to out-of-spec steel
- Capture recommendations for raw material ingredient blends in natural language rules
- Monitor furnace data to quantify the risk of defects in steel and proactively prevent scrap and rework

SOLUTION VALUES

- Maximize operational efficiency by analyzing steel plant floor data
- Reduce manufacturing costs with proven and established steel manufacturing rules
- Save energy with efficient utilization of your blast furnaces
- Save cost of scrap and rework

USERS

- Process Statisticians
- Quality Engineers
- Shop Floor Operators

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