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MTR (Material Test Report)
Brief overview

Purpose
The main purpose is to generate MTRs (MATERIAL TEST REPORTS) for delivered products.
Additional purposes:

- Generate Heat treatment certificates
- Generate mechanical test reports
- Store quality data in a structured manner
- Record quality data effectively
- Easy access to data
- Prevent errors through robust validation
- Provide traceability for the quality system
- Reduce redundant activities when creating quality documents

How it works
The MTR data can be grouped into three categories:

1. Chemical composition
2. Mechanical properties
3. Heat treatment parameter values

The data comes from :
Chemical composition — from the melt heat;
Mechanical properties — from the melt heat and the QTC heat treatment batch.
Heat treatment parameters — from the heat treatment batch.

These data come from the supplier's quality documents or from internal documents. The application combines them to generate the MTR

The application provides unique component serialisation to meet the requirements of PSL 3. The MTR application hides process complexity bysimplifying workflows. The idea is to store, for each serial number, the melt heat, heat treatment batch, and mechanical test report. The application does this efficiently. It also enables multilevel assemblies to be built from uniquely serialised components.

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MTR WORKFLOW

