SIEMENS
Ingenuity for life

Integrated material management

Benefits

- Reduce rework and costly errors with a single point of access for all relevant material information
- Increase efficiency with quick and easy selection and use of materials in Teamcenter and NX
- Minimize training with role-based access to material information
- Improve customer satisfaction by using customer-sanctioned materials
- Reduce risk of recalls with complete material lifecycle management
- Stay compliant with quick and easy reporting and analysis of the product material information

Optimizing material use for greater performance and profitability throughout the product lifecycle

Summary
As products across all global industries become more and more alike in terms of design and performance, companies are crossing the next frontier of product innovation: material design and engineering. Many of today's innovative designs succeed due to the discovery and revolutionary use of new materials; from lightweight mobile telephones and tablets to electric vehicles, advanced aircraft, green energy equipment (wind turbines, solar, etc.) and medical devices. Managing material data and integrating it with product design is critical to validating and optimizing the iterative development of complex products. Developing new materials and newer applications for existing materials to apply to product design is critical for stepping up the pace of innovation.

Holistic material management
By using Teamcenter® software integrated material management, materials can now be actively managed in Teamcenter throughout the lifecycle, from material design to production as well as throughout the lifecycle of products that include these materials. Integrated material management provides a way to seamlessly manage the lifecycle of materials "big data," and help product companies avoid the costly consequences of getting it wrong or getting left behind. In the new world of material-driven product designs, integrated material management reduces development costs by delivering immediate value, such as:

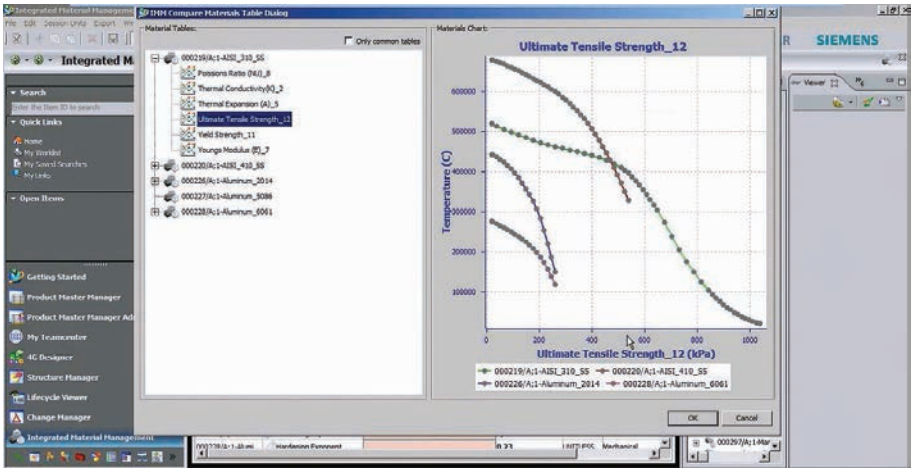
- Enterprise-wide use of approved material information for mission-critical product functions, such as design, engineering, compliance and manufacturing
- A gateway to critical material databases and online material catalogs
- Reliable synchronization between products and associated materials

Integrated material management

Features

- Support holistic material data management in Teamcenter
- Manage materials in the context of customer defined and managed catalogs
- Control the entire material lifecycle (create, test, release and obsolescence)
- Import material data from third-party systems (Granta, Wiam, Campus, etc.)
- Use material information from Teamcenter in FEM, ERP and MES systems
- Provide enhanced integration of NX and Teamcenter to transfer material assignments for parts with multiple materials
- Streamline rollup of material-driven product strategy parameters with dashboards in Teamcenter and NX

Materials information management systems have evolved to keep pace with the growing user demand in terms of capturing, processing, storing and interrogating material property data. However, if the lifecycle of the materials and access to this data is not integrated into the lifecycle of the product, holistic material management will not fully be achieved. Teamcenter integrated material management is the missing link between material data and true product intelligence. Establishing and maintaining an intimate integration between the materials considered for use in a product and the product's bill-of-materials (BOM) is crucial to delivering successful, innovative products.



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