Ansys

Product Overview

# Ansys Granta MI Pro

MATERIALS

## A fast-start materials data management solution for design and simulation

Build and maintain a source of approved materials information, combining in-house data with reference data from Ansys Granta and make this resource instantly available to CAD designers and CAE analysts.

## / Manage Vital Materials Knowledge

Design and simulation teams need the right materials data as input. That is why many leading engineering enterprises implement Ansys Granta MI for enterprise-wide materials information management. But what if an organization wants to get started quickly, with a focused solution?

Ansys Granta MI Pro makes it easy to build a materials database that combines company-approved proprietarty data with valuable reference data from Ansys Granta. The database is accessible through embedded apps in NX™ CAD or Ansys Workbench® CAE. Engineers can search materials and assign to their CAD or CAE model in just a few clicks. They can also use a web app to access more detailed property data, reviewing and comparing materials before assignment. Apply the associated data using density data for weight roll-ups in CAD or complex materials models to support advanced simulations. Easily reapply assignments made in CAD into CAE. Save time and avoid inconsistent data use. Guarantee that the right material models are used every time.

## / Manage And Apply Valuable Proprietary Data

Granta MI Pro is based on a database system for managing in-house materials property data. Simple tools make it easy to import and manage new information from suppliers. Create and control a source of approved data for design and simulation teams, ensuring that data retains full traceability to its source.

## / Key Benefits

- Increase productivity: enabling your team to find data fast and avoid duplicated effort.
- Save costs and time and reduce risk by avoiding errors that can lead to delay.
- Ensure materials consistency across your team and between CAD drawings/models and the data used in CAE.
- Deploy approved/preferred materials data to your team in a controlled manner.
- Access useful generic reference data to support the early phases of simulation.

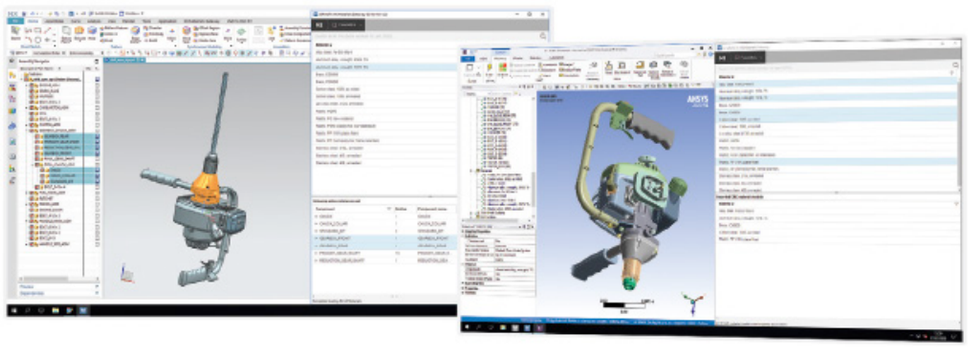

Figure 1.

## A Library of Material Properties and Models

Granta MI Pro is preloaded with materials data for design and simulation from Ansys Granta, the leader in materials information. More than 700 datasheets cover a wide range of materials classes, detailing physical, thermal and electromagnetic properties. Data is ready-to-use in simulation, saving time and removing the risk of error when data must be converted for use in CAE tools.

## Get Started – Fast!

A key advantage of Granta MI Pro is that user organizations can get started immediately. Its database structures and data import/export tools are fixed and are set up to support a standard scenario for design and simulation teams. Users can download the software, benefit from the extensive user assistance documentation and videos and be ready to go.

## Need More Flexibility Across The Enterprise?

What if users need to move beyond the needs of design or simulation teams? Or manage complex interrelated data from materials testing or additive manufacturing projects? Or require integration with critical business systems, such as PLM?

Ansys Granta MI Enterprise is the industry-leading database system for managing corporate materials information. It provides flexible and powerful tools to meet all needs of the enterprise. Granta MI Pro enables users to benefit from these capabilities in a focused way, with an option to upgrade.

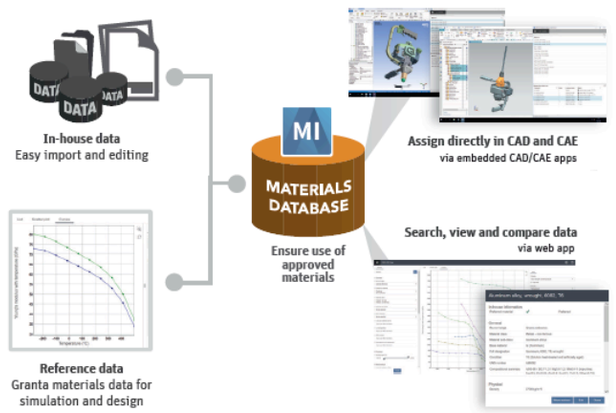


Figure 2.

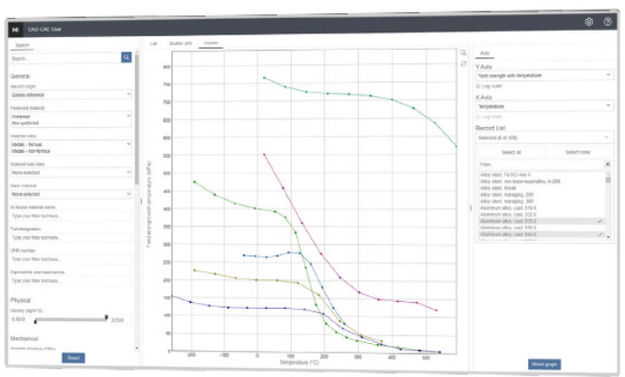

Figure 3. Users can search, browse, and compare materials property data via the Granta MI Pro web app before assigning a material in CAD or CAE.

## What do I Buy?

Granta MI Pro Server provides the core database system and data import and management tools. The Granta MI Pro Server license also includes materials reference data for simulation from Granta.

A Granta MI User license is required for each user of the system. This enables users to access and apply the data in the database using the Granta MI:Materials Gateway app within their NX CAD system or Ansys Workbench CAE system. Support for further CAD and CAE systems will be added in future releases.

More information and case studies: **www.ansys.com**

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