

matereality
Personal Material Database Pro

Build your own database

Personal Material DatabasePro

Matereality offers a secure, science-based software capable of capturing any material data in full interactive detail. The Personal Material Database is a cloud product hosted at the Global Data Center. Build and maintain your own personal database. You can apply powerful SaaS software for advanced plotting of simple and complex data accompanied by analytics to instantly visualize data trends. Convert units, zoom, interrogate curves, share, or export data to Excel or CAE, all with the click of a button. Since Matereality Databases are fully scalable, you can never outgrow your database! All databases offer full access control - keep your data private, or share it selectively with your collaborators.

Your Database

Store, view, search, and edit your secure database. Upload and organize any properties of any materials, including single-point, curve data, graphs, images, datafiles, and more. There are truly no limits!

Access Control

It's your data - you control it. Make data Public, Private, or Hidden. You can grant or remove access to individual users and workgroups.



Collaboration

Share richly-detailed data with colleagues by e-mail link, or embed the Data Viewer into your internal documents and web-media.



Traceability

Each dataset is supported by a Data Certificate providing complete traceability. Information includes test techniques and parameters, sample and specimen details, date, and accreditation.



Governance

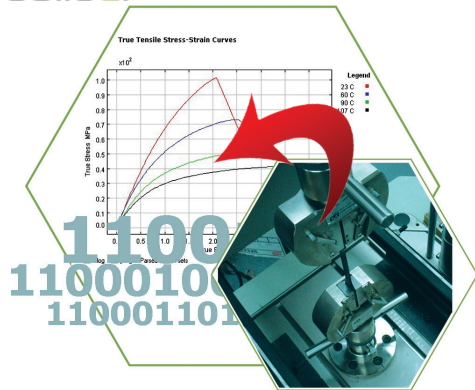
Control and track access or usage, and set data presentation, units, and search preferences.



SaaS Software

Your database is accompanied by a suite of software to help you to understand and use your material data. All software is browser based requiring no download to client computers. All common browsers are supported.

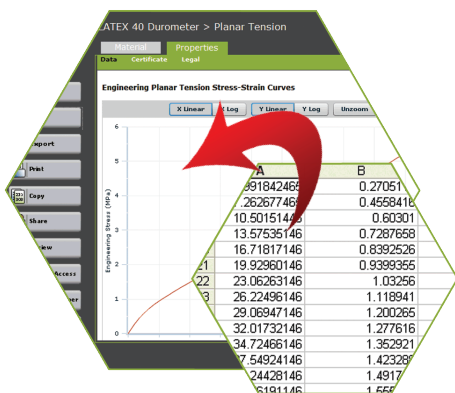
database builder



The Database Builder is a powerful engine that allows any user to populate their own material database. Data can be loaded, copied from other databases, or imported from a variety of file formats including CAE material model files. Once data is within the database, Matereality's software can be used to examine and transform it to other uses.

- Data Loading Wizard permits easy upload of both simple and complex material data
- Copy feature to download an editable copy of any material data on Matereality for personal editing and modification
- Reverse material modeling tool to transform material models from one CAE software to another
- Optional DataPipes Import feature to read material data from test instruments into your database
- Fit data to equations

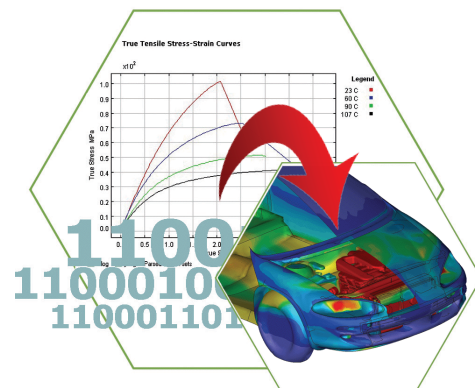
dataviewer



The Data Viewer is used to view and analyze material data of any complexity and any kind of material property data.

- Trends and dependencies become apparent
- One click export to Excel
- Automated unit conversion
- Detailed data inspection and curve interrogation, zoom
- Compare capability of material properties of any complexity
- Data Certificates to ascertain reliability of data
- Collaboration and sharing
- Embedding of pertinent views inside internal documents, web-sites
- Access control and transfer of data between team members

CAEmodeler



The CAE Modeler converts raw material data into material models for a variety of CAE. Material parameter generation capability includes simple elastic, elastic-plastic, rate dependent, visco-elastic, hyperelastic material models for FEA plus injection-molding simulation parameters.

CAE Modelers include data mining robots to locate the correct data needed for a material model, material parameter conversion and the writing of files readable by each supported CAE software. A graphical user interface allows the analyst to edit and tune the material model parameters as needed for higher fidelity. The CAE Modelers are integrated into several CAE environments including Abaqus/CAE, ANSYS Workbench, Moldex3D and SIMPOE.

Matereality Products

Matereality Material Data Management (MDM) Solutions are available for individual or group access as listed below. Systems can be configured for Site and Enterprise-wide use. All databases offer full access control - keep your data private, or showcase it to the world.

Personal Database

Build your own database! Perfect for a single user, a Matereality Personal Database lets you store all your material data in one highly manageable, secure place. Data loading and editing is straightforward and accurate. Easily export raw data to Excel or models to CAE.

Workgroup Database

Sharing data with your colleagues can be tricky. A Workgroup Database allows a group of users to access the same pool of data from any location and for unique purposes. Workgroup databases allow for rich collaboration and "I see it the way you see it" for data and CAE models. Administrator can consolidate members' individual data, track usage, and create subgroups with various access settings. Your team will have one-click access to the same accurate, up-to-date data, complete with software to help them understand and use it.

Supplier Database

Drive traffic to your websites with one of our full featured, searchable Material Databases. Add features for material selection, CAE support, and material submission packages. Add badges and buttons to guide visitors to select your materials.

Material Data Server

Material Data Server provides a single platform for the storage and deployment of any material properties on any materials. The system is designed for site-wide or enterprise-wide deployment so that users can access the information they need at their desktops directly over the intranet. This technology permits enterprises to create a 365/24/7 on-line resource that provides selective access to materials information at all levels within the organization: procurement, manufacturing, quality product engineering, research and development.

Fact:
Datasheets are out of date. They do not contain enough information to let your clients or colleagues make informed decisions about your materials.

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