



Material Supplier Database

Matereality offers a secure, science-based software capable of capturing any material data in full interactive detail. The Material Supplier Database is a fully scalable solution to store and showcase detailed data on all of your materials, no matter how complex - you can never outgrow your database. You and your clients 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. All databases offer full access control - keep your data private, or share it selectively with your customers, prospects, and 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

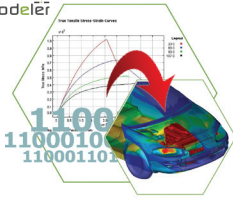
Control and track access or usage, and set data presentation, units, and search preferences.



Software for your Engineers

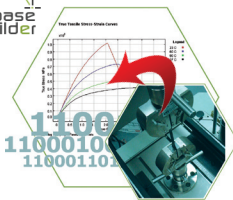
Your Material Supplier Database comes with several unique software features for your engineers and technical personnel to load, analyze, and post-process material data.

CAEmodeler



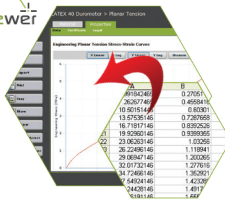
The **CAE Modeler** converts raw material data into material models for a variety of CAE. Material parameter generation capability includes simple elastic, elastic-plastic, rate dependent, visco-elastic, hyperelastic material models for FEA plus injection-molding simulation parameters. CAE Modelers consist of 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 for better fit. The CAE Modelers are integrated into several CAE environments.

database builder



The **Database Builder** is a powerful engine that allows your lab personnel and engineers to populate your material database. Data can be loaded or imported from a variety of file formats including test instruments and CAE material model files. Once data is within the database, Matereality's software can be used to examine and transform it to other uses, or 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. Features include automatic data trend analytics, material model visualization, one-click export to Excel, unit conversion, detailed data inspection and curve interrogation, zoom, Data Certificates, embedding, access control, and data transfer.

Client Outreach

Draw engineers to your website and allow them to explore your materials on your site. Show off your materials with customized Portals and Badges.

Material Database

Single and Multi-point Properties

Application Selector

Find materials and properties for your products

ANSYS CAE Modeler

Convert material data to ANSYS CAE models

Customizable Portals put the power of Matereality databases and software on your website. Customers can use Matereality's search tools, DataViewer, and CAE Modeler software services all from your website or material database page. You'll get full Matereality functionality with your logo and design. Maintain control over your data at all times. Monitor usage of your data.

Custom Badges provide a direct link to tools for Technical Services (including CAE Modelers). Badges can be used on website, intranet, or in e-mails.

- **Material Database Badge:** Create one-click access to your database.
- **CAE Modeler Badges:** Engineers are loyal to their software. Your clients can select their CAE software to view simulation-ready datasets/material cards for their CAE programs.
- **Application Selector Badge:** Deliver detailed application-specific material data with targeted search functionality and help guide your clients toward the right materials for their new products.



Aerospace



Automotive



Biomedical



Packaging

Product Details

Your Material Supplier Database comes with a complete set of tools to streamline your customer-facing technical support operations. Material Databases come ready-to-implement with no software installation or maintenance required. All common property types are pre-loaded. Simply start adding your data into the system.

Material Data Steward

This is a special account controlled by an administrator who is responsible for your Material Database. The steward may be technical, or, in large organizations, an administrator who is supported by a technical expert.

- Keep the database up to date
- Modify material nomenclature
- Review and approve new material property data
- Transfer material data ownership to product specialists
- Act for anyone who has retired or left the company

Handling Multiple Product Lines

A Product Database can be created for the technical support specialist dedicated to each product line. All material data for a product line is owned and controlled by this specialist.

- Controls the status of data: public, private, or hidden, following your business practice
- Approves the release of private data to qualified users of your Material Database
- Monitors Access Logs to see who is using your data

Client Access to your Material Database

Access is free and unlimited to your clients. All clients need to obtain a unique global identification in order to access your Material Database. Registrations are managed by Matereality.

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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