

Get up to speed in a new area **Validate assumptions**
Spec out project plans **Look up a chemical formula**
Locate a new material **Solve a design problem**
Improve processes **Compare properties of substances**

Knovel offers more than 30 subject areas ranging from Aerospace to Welding Engineering

- Adhesives, Coatings, Sealants & Inks
- Aerospace & Radar Technology
- Biochemistry, Biology & Biotechnology
- Ceramics & Ceramic Engineering
- Chemistry & Chemical Engineering
- Civil Engineering & Construction Materials
- Computer Hardware Engineering
- Electrical & Power Engineering
- Electronics & Semiconductors
- Engineering Management & Leadership
- Environment & Environmental Engineering
- Fire Protection Engineering
- Food Science
- General Engineering & Project Administration
- Industrial Engineering & Operations Management
- Mechanics & Mechanical Engineering
- Manufacturing Engineering
- Marine Engineering & Naval Architecture
- Metals & Metallurgy
- Mining Engineering & Extractive Metallurgy
- Nanotechnology
- Oil & Gas Engineering
- Optics & Photonics
- Pharmaceuticals, Cosmetics & Toiletries
- Plastics & Rubber
- Process Design, Control & Automation
- Safety & Industrial Hygiene
- Sustainable Energy & Development
- Textiles
- Transportation Engineering
- Welding Engineering & Materials Joining

Engineers rely on Knovel for fast access to a range of trusted information including:

- Best practices
- Process improvement
- Safety & compliance
- Disruption resolution
- Energy efficiency
- Failure analysis
- Disruption resolution
- Energy efficiency
- Failure analysis
- New technologies
- Product design and development

Engineers at the world's most **innovative companies** and **leading universities** **rely on Knovel** to quickly locate **relevant and reliable technical information**

Getting Started with Knovel

Technical information and interactive tools for engineers

"The **immediate access to relevant technical information** to carry out projects is absolutely an **essential part of my job**. This leads to **few errors and a cost effective solution** for Celanese."

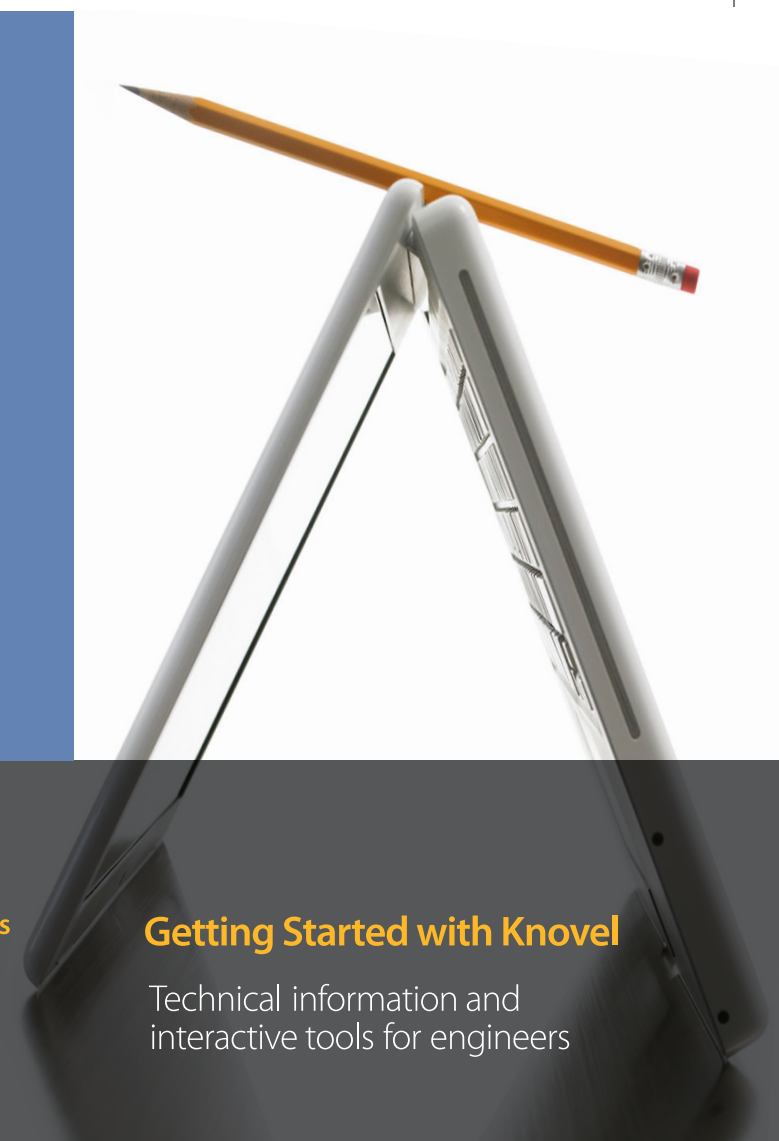
- Lead Engineer, **CELANESE**

knovel.com
Know More. Search Less.



Know More. Search Less.

knovel.com



Knovel provides quick and accurate answers to your questions:

What if? What is? How do I?

Knovel's tools help you to maximize your productivity, so you and your team—whether on-site or in the field—can collaborate to deliver projects on time.

Search Optimized for Engineers

With Knovel, there is no need to waste time with countless irrelevant and unreliable hits from web search engines to locate the right information. Results are returned from vetted professional handbooks and databases.

Knovel's search engine is optimized to deliver the results that engineers need. Users can begin with a broad search term.

Trusted Information

Drawing from more than 100 leading technical publishers and professional societies including AIAA, AICHe, ASCE, ASHRAE, ASM, ASME, NACE, and SAE, Knovel ensures that technical information is relevant, reliable and of highly professional quality.

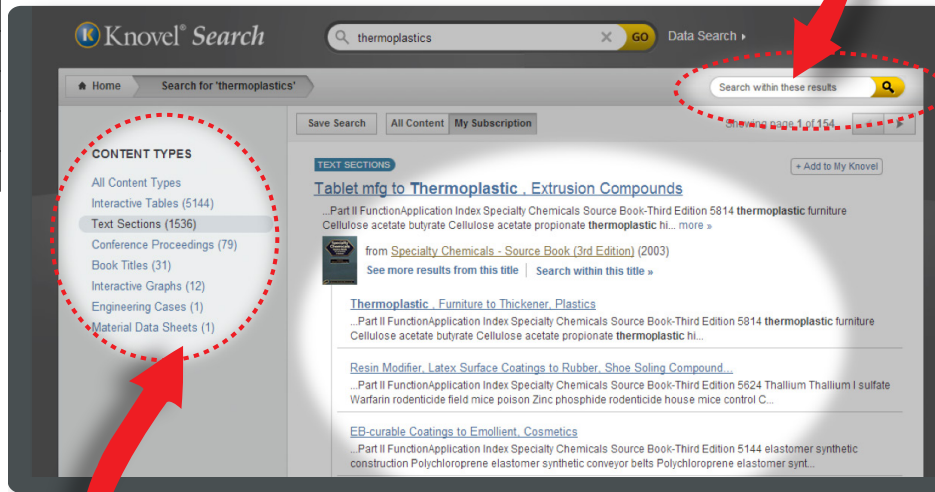
Data Analysis Tools

With Knovel, answers are not only discoverable, they are also actionable using interactive tools. Use Knovel's live graphs and equations to accurately plot points, test ranges for 'what if scenarios' and solve real-world problems without calculating complex equations or redrawing a static image.

Knovel's Data Search allows you to locate information that may be hidden in large complex tables, helping you locate critical numeric range values, and manipulate data just as easily as sorting a spreadsheet.



Knovel returns search results in order of relevancy, listing the most important items first. Users can refine their initial search by adding new terms in the "Search within these results" box.



Users can also view and filter search results from a variety of content types available on Knovel including Interactive Tables, Text Sections, Material Data Sheets, and more.

material family	trade name/grade	material name / MDS	supplier	Density (lb/in ³)	Shear Modulus (ksi)	Shear Strength (ksi)
Titanium Alloy		ATI Wah Chang Ti-3Al-2.5V	ATI Wah Chang	0.162	6200 - 6500	
Titanium Alloy		Overview - Beta Titanium Alloy		0.160284 - 0.182666	3916.019 - 6657.232	78.0638 - 114.629
Titanium Alloy	Tikrutan	Deutsche Titan Tikrutan RT 12 Commercially Pure Titanium	Deutsche Titan	0.16245	5511.434	
Titanium Alloy	Tikrutan	Deutsche Titan Tikrutan RT 15 Commercially Pure Titanium	Deutsche Titan	0.16245	5511.434	
Titanium Alloy	Tikrutan	Deutsche Titan Tikrutan RT 15 Pd Low-Alloyed Titanium	Deutsche Titan	0.16245	5511.434	
Nonferrous Metal		TIMET 6-4 Titanium Alloy (Ti-6Al-4V; ASTM Grade 5) Rod	TIMET	0.159562	5946.547 - 6526.698	



Need online help?
Access our **Support Center** from the top navigation bar

Know More. Search Less. knovel.com