

## ASM on Knovel

World-class materials data connects with powerful search and interactive analysis tools



Know More.  
Search Less.



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With a network of over 36,000 members worldwide, content from ASM International, The Materials Society, is the first choice of reference material for engineers engaged in materials selection, metal processing and metalworking and failure analysis.

Knovel brings ASM content to life, making ASM materials property data interactive. Knovel pairs ASM content with best practice information from over 70 leading engineering societies and publishers, allowing engineers to combine the activities of researching design techniques with material selection.

ASM on Knovel features the society's best-known information resource, the world-renowned ASM Handbook series, along with extensive properties data of metals and alloys as well as atlases of fatigue curves and stress-strain curves.

Knovel allow users to search for materials based on their characteristics; i.e. aluminum alloys with a tensile yield strength greater than 100 MPa. Users can search in the unit of measurement they prefer, and Knovel automatically performs unit conversion as part of the search – so users will find the information they need.

Stress and strain curves are interactive, allowing users to investigate multiple “what-if” scenarios. For example, users can plot varying temperature values along a curve and corresponding yield strengths will be returned. Users can then export the data values for use in other applications such as Excel.

ASM on Knovel helps engineers to specify and select the most appropriate materials quickly.

ASM on Knovel includes the following reference titles:

- The ASM Handbook Series- 23 Volumes
- ASM Specialty Handbook: Copper and Copper Alloys
- ASM Specialty Handbook: Nickel, Cobalt, and their Alloys
- Alloy Digest (1952-2010)
- Atlas of Fatigue Curves
- Atlas of Stress-Strain Curves, 2nd Edition
- Atlas of Time-Temperature Diagrams for Irons and Steels
- Atlas of Time-Temperature Diagrams for Nonferrous Alloys
- Heat Treater's Guide: Practices and Procedures for Irons and Steels, 2nd Edition
- Heat Treater's Guide: Practices and Procedures for Nonferrous Alloys
- Woldman Engineering Alloys
- Worldwide Guides to Equivalent Irons and Steels, 5th Edition
- Worldwide Guides to Equivalent Nonferrous Metals and Alloys, 4th edition
- Handbook of Corrosion Data, 2nd Edition
- Materials Properties Handbook: Titanium Alloys
- Properties of Aluminum Alloys: Fatigue Data and Effects of Temp., Prod. Form, and Proc. Variables
- Properties of Aluminum Alloys: Tensile, Creep & Fatigue Data at High & Low Temperatures



### Relevant Industries

Engineering Design & Construction  
Equipment/Machinery  
Metals & Mining  
Aerospace  
Chemicals  
Oil & Gas  
Government  
Academic



### Relevant Functions

Design Engineers  
Material Engineers  
Material Scientists  
Mechanical Engineers  
Metallurgists  
Metalworkers

Knovel is a web-based application that integrates technical information with analytical and search tools to drive innovation and deliver answers engineers can trust.

### Learn more about Knovel

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