

I-DEAS® Material Data Catalog - MIL5 software is available for access through the I-DEAS Material Data System™ software. The catalog consists of more than 1,370 records covering materials commonly used for aerospace applications including steel, stainless steel, aluminum, magnesium, titanium, heat-resistant alloys, and special purpose alloys. MIL5 is compiled and updated on a regular basis using the U.S. Government MIL-HDBK-5. The data has been approved for use by all departments and agencies of the U.S. Department of Defense and Federal Aviation Administration.

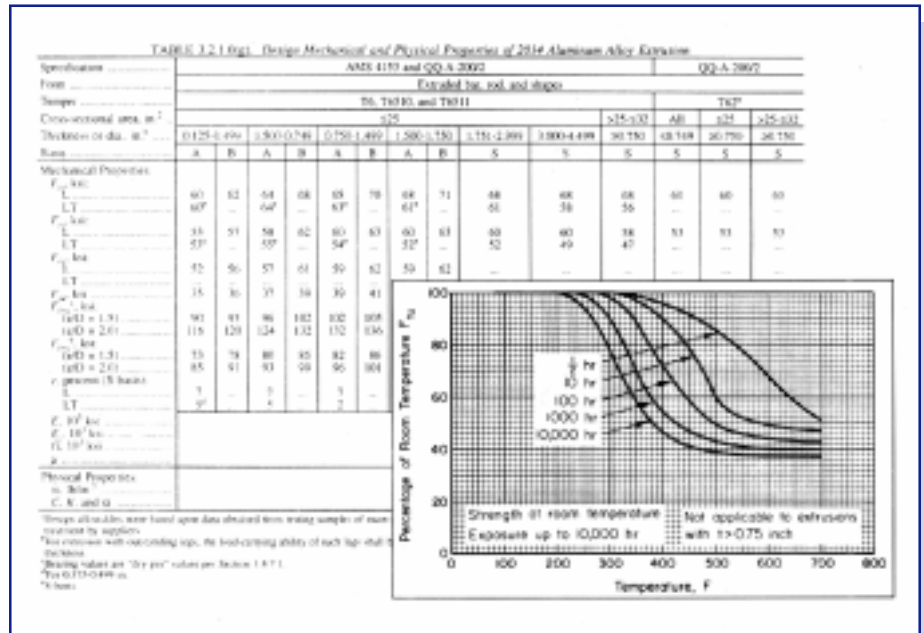
Properties

I-DEAS Material Data Catalog - MIL5 includes mechanical property data commonly needed for engineering design and analysis including:

- Young's Modulus
- Shear Modulus
- Poisson's Ratio
- Yield Strength
- Ultimate Strength
- Elongation
- Density
- Coefficient of Thermal Expansion
- Thermal Conductivity
- Specific Heat
- Material Thickness
- Ultimate Bearing Stress
- Ultimate Shear Stress
- Yield Bearing Stress
- Yield Compressive Stress

Graphs of material characteristics include:

- Maximum Stress versus Fatigue Life
- Room Temperature Strength versus Temperature
- Thermal Expansion versus Temperature
- Specific Heat versus Temperature
- Thermal Conductivity versus Temperature
- Stress versus Strain at Various Temperatures



Comprehensive properties for metallic material are provided by MIL-HDBK-5.

Statistical A, B, & S basis property values are provided for all materials. References to specific thicknesses, tempers, test temperatures, and test conditions are also provided.

Prerequisite

- Core Master Modeler
- or-
- I-DEAS Product Design Package
- or-
- I-DEAS Artisan™ Package
- or-
- Core Simulation

For More Information

For more information, contact your local SDRC representative or call 1-800-848-7372.