



# **CINDAS DATABASES– WHAT’S IN THEM FOR ME?**

**A tutorial on using the CINDAS  
interactive databases in your library**

# MATERIALS PROPERTIES



- Change with Temperature
  - Strength, ductility
  - Dimensions: expansion, contraction
- Some properties change with Time

- ▣ People who design structures (cars, airplanes, bridges, ships, turbines, oil infrastructures, etc.) need reliable materials data to pick the right material for the application.
  - Always want the best performance and lowest cost



# CINDAS LLC DATABASES

- Aerospace and High Performance Alloys Database (AHAD)
- Aerospace Structural Metals Database (ASMD)
- Thermophysical Properties of Matter Database (TPMD)
- Microelectronics Packaging Materials Database (MPMD)



## WHO USES THIS THE INFORMATION?

- Current corporate and research customers include:
  - Aeronautical and Aerospace Industry
  - Government and Defense Industry
  - Oil and Gas Industry
  - Automotive and Transportation Industry
  - Power Generation Industry
  - Nuclear Research



# WHO USES THIS THE INFORMATION?

- Academic Departments and Research Groups
  - Chemical Engineering
  - Chemistry
  - Electrical and Electronics Engineering
  - Aerospace and Aeronautical Engineering
  - Materials Science
  - Mechanical Engineering
  - Nuclear Engineering
  - Physics and Applied Physics

# SOME COMMON EXAMPLES OF CINDAS APPLICATIONS

- The following slides will take you through some examples of potential or existing uses including:
  - Chemical Processing
  - Energy and Nuclear
  - Electronics
  - Marine and Maritime
  - Medical
  - Oil and Gas
  - Aerospace
  - Defense

# TPMD CONTENTS

- Contains data on over 5000 materials
- In 85 Material Groups
- Covering 107 different properties
- With over 51,000 data curves



# CINDAS PRODUCTS PROVIDE IMPORTANT DATA ON PROPERTIES FOR MATERIALS

- Density
- Entropy
- Specific Heat Capacity
- Thermal Conductivity
- Coefficient of Thermal Expansion
- Viscosity
- Transmittance
- Absorption
- Reflectance
- Emittance
- Extinction Coefficient
- Absorbance
- Refractive Index

Thermophysical

Thermoradiative

Optical



# FOUR WAYS TO SEARCH THE DATABASE

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Global Benchmark for Critically Evaluated Materials Properties Data

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TPMD (version 10, data updated 2016.2)

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Browse By:

Material Group

Property Group

1435 Win Hentschel Blvd, Suite B-110, West Lafayette, IN 47906-162 USA  
Phone: +1 765 807-5400; Fax: +1 765 807-5291  
Email: [info@cindasdata.com](mailto:info@cindasdata.com)  
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Elements,  
Coatings:metallic,  
Glasses,  
Silicides

Thermophysical  
Thermoradiative  
Optical

Search By:

Material Name

e.g., ni inco, Nickel Incoloy

or

Property Name

e.g., electric, Electric Resistivity

Uranium  
Nickel Aluminides  
Cermet

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Thermal Conductivity  
Thermal Diffusivity  
Specific Heat

# To compare the same property of two or more materials search by Property Group.

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Browse By:

Material Group

or

Property Group

Thermophysical Properties

Search By:

Material Name

Type material name here

Go

e.g., ni inco, Nickel Incoloy

or

Property Name

Type property name here

Go

e.g., electric, Electric Resistivity

1435 Win Henschel Blvd, Suite B-100, West Lafayette, IN 47906-4162 USA

Phone: +1 765 807-5400; Fax: +1 765 807-5291

Email: [info@cindasdata.com](mailto:info@cindasdata.com)

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Search by property group:  
Thermophysical Properties

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### TPMD (version 10, data updated 2016.2)

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Select Property Group:

(4 property groups)

Select Property Name:

(34 properties)

1435 Win Henschel Blvd, Suite B-110, West Lafayette, IN 47906-4162 USA

Phone: +1 765 807-5400; Fax: +1 765 807-5291

Email: [info@cindasdata.com](mailto:info@cindasdata.com)

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Of the 34 properties, choose  
Thermal Conductivity

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# TPMD (version 10, data updated 2016.2)

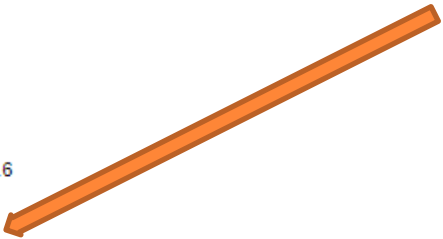
Select Property Group:  (4 property groups)  
Select Property Name:  (34 properties)

Property Range  
Thermal Conductivity (W cm<sup>-1</sup> K<sup>-1</sup>) 0.0 - 158.0

Select an Independent Variable, and then click the Show Graph or Show Text button.

Independent Variable	Minimum	Maximum
<input type="radio"/> Aging Time (days)	0.0	5280.0
<input type="radio"/> Air Pressure (MPa)	1.33322e-06	0.93
<input type="radio"/> Angle (degree)	-160.0	180.0
<input type="radio"/> Annealing Temperature (K)	225.0	1548.2
<input type="radio"/> Apparent Specific Gravity (fraction)	1.21	1.29
<input type="radio"/> Argon Pressure (MPa)	1.33322e-06	0.71
<input type="radio"/> Carbon Dioxide Pressure (MPa)	0.08	6.41
<input type="radio"/> Cos [2] Angle (alternate/no units)	0.0	1.0
<input type="radio"/> Density (g cm <sup>-3</sup> )	0.00756	1.84
<input type="radio"/> Electric Conductivity (ohm <sup>-1</sup> cm <sup>-1</sup> )	258.0	1497.0
<input type="radio"/> Freon-12 Pressure (MPa)	0.08	0.12
<input type="radio"/> Helium Pressure (MPa)	9.7725e-09	8.12
<input type="radio"/> Hydrogen Pressure (MPa)	7.99932e-07	8.54
<input type="radio"/> Irradiation Level (MWD Te <sup>-1</sup> )	985.0	3157.0
<input type="radio"/> Magnetic Field Strength (A/m)	13528.09	1018585.6
<input type="radio"/> Magnetic Flux Density (T)	0.0	0.98
<input type="radio"/> Methane Pressure (MPa)	1.33322e-06	0.49
<input checked="" type="radio"/> Moisture Content (percent)	1.0	26.8
<input type="radio"/> Mole Fraction of Acetylene (fraction)	0.0	1.0
<input type="radio"/> Mole Fraction of Air (fraction)	0.0	1.0
<input type="radio"/> Mole Fraction of Ammonia (fraction)	0.1	1.0
<input type="radio"/> Mole Fraction of Argon (fraction)	0.09	1.0
<input type="radio"/> Mole Fraction of Benzene (fraction)	0.0	1.0
<input type="radio"/> Mole Fraction of Carbon Dioxide (fraction)	0.0	1.0
<input type="radio"/> Mole Fraction of Carbon Monoxide (fraction)	0.0	1.0
<input type="radio"/> Mole Fraction of Chloroform (fraction)	0.0	1.0
<input type="radio"/> Mole Fraction of Cyclopropane (fraction)	0.0	1.0
<input type="radio"/> Mole Fraction of Deuterium (fraction)	0.09	1.0
<input type="radio"/> Mole Fraction of Dimethyl Ether (fraction)	0.0	1.0
<input type="radio"/> Mole Fraction of Ethane (fraction)	0.0	1.0
<input type="radio"/> Mole Fraction of Ethyl Ether (fraction)	0.0	1.0
<input type="radio"/> Mole Fraction of Ethylene (fraction)	0.0	1.0
<input type="radio"/> Mole Fraction of Helium (fraction)	0.08	1.0
<input type="radio"/> Mole Fraction of Hexane (fraction)	0.0	1.0
<input type="radio"/> Mole Fraction of Hydrogen (fraction)	0.12	1.0
<input type="radio"/> Mole Fraction of Krypton (fraction)	0.09	1.0

Choose Moisture Content as independent variable



Click on Show Graph



## TPMD (version 10, data updated 2016.2)

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Property Group: Thermophysical Properties  
 Property: Thermal Conductivity (W cm<sup>-1</sup> K<sup>-1</sup>)  ▾  Logarithmic  
 Independent Variable: Moisture Content (percent)  ▾  Logarithmic

[Edit Selection](#)

### Select Materials ?

Select one or more materials from the list below. Hold the control key to select multiple materials. Available data curves will be displayed on the right. Then proceed to Step 2.

- M1: Clay, Ashkhabad
- M2: Clay, Beshkudnikov
- M3: Clay, Kuchin
- M4: Spruce

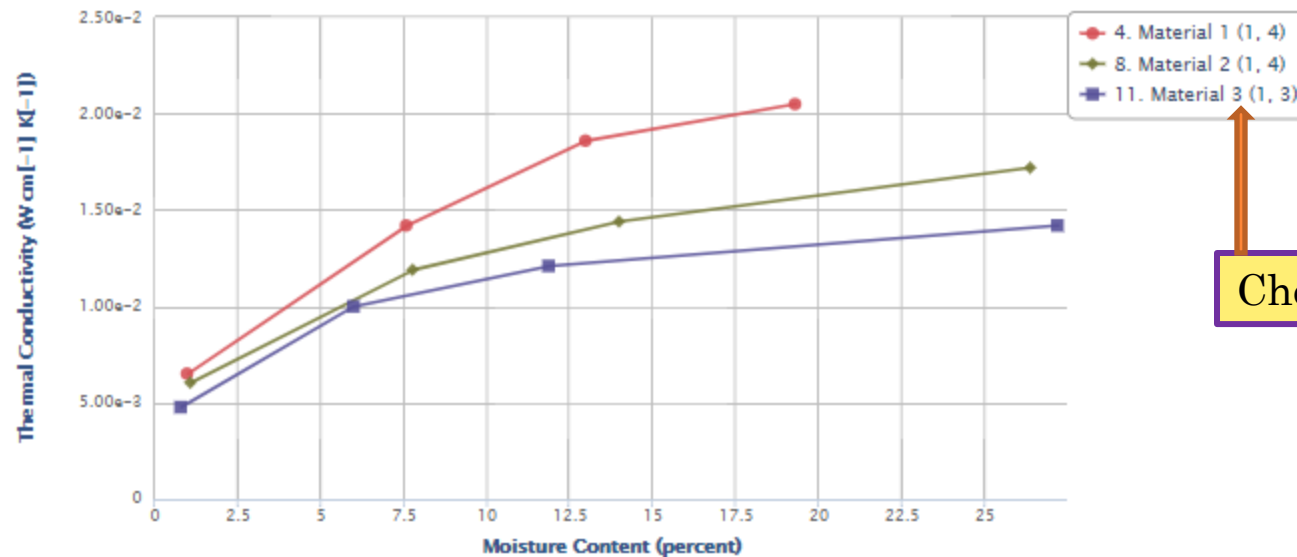
(Listing 4 materials)

### Select Data Curves/Test Conditions ?

Select between one and twenty data curve descriptions from the list below to view graphs. Hold the Control key to select multiple data curves.  
 Key: Selected Material: (Set, Curve) - Remarks

- 1. M1 (1, 1) - C1: Moisture content range (MC) of 1.2 to 19.8% at 0 mm Hg vac
- 2. M1 (1, 2) - C2: MC range 0.8 to 20%; measured at 300 mm Hg vacuum
- 3. M1 (1, 3) - C3: MC range 1.2 to 19.2%; measured at 500 mm Hg vacuum
- 4. M1 (1, 4) - C4: MC range 1 to 19.3%; measured at 740 mm Hg vacuum
- 5. M2 (1, 1) - C1: Moisture content (MC) range of 1.2 to 26.4% at 0 mm Hg vac

Thermal Conductivity vs Moisture Content  
 3 Materials



Choose materials M1, M2 and M3, types of clay

Choose Curves 4, 8 and 11.

## TPMD (version 10, data updated 2016.2)

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Property Group: Thermophysical Properties  
 Property: Thermal Conductivity (W cm<sup>-1</sup> K<sup>-1</sup>)  ▾  Logarithmic  
 Independent Variable: Moisture Content (percent)  ▾  Logarithmic

Can change units for both property and independent variable.

[Edit Selection](#)

### Select Materials ?

Select one or more materials from the list below. Hold the control key to select multiple materials. Available data curves will be displayed on the right. Then proceed to Step 2.

- M1: Clay, Ashkhabad
- M2: Clay, Beshkudnikov
- M3: Clay, Kuchin
- M4: Spruce

(Listing 4 materials)

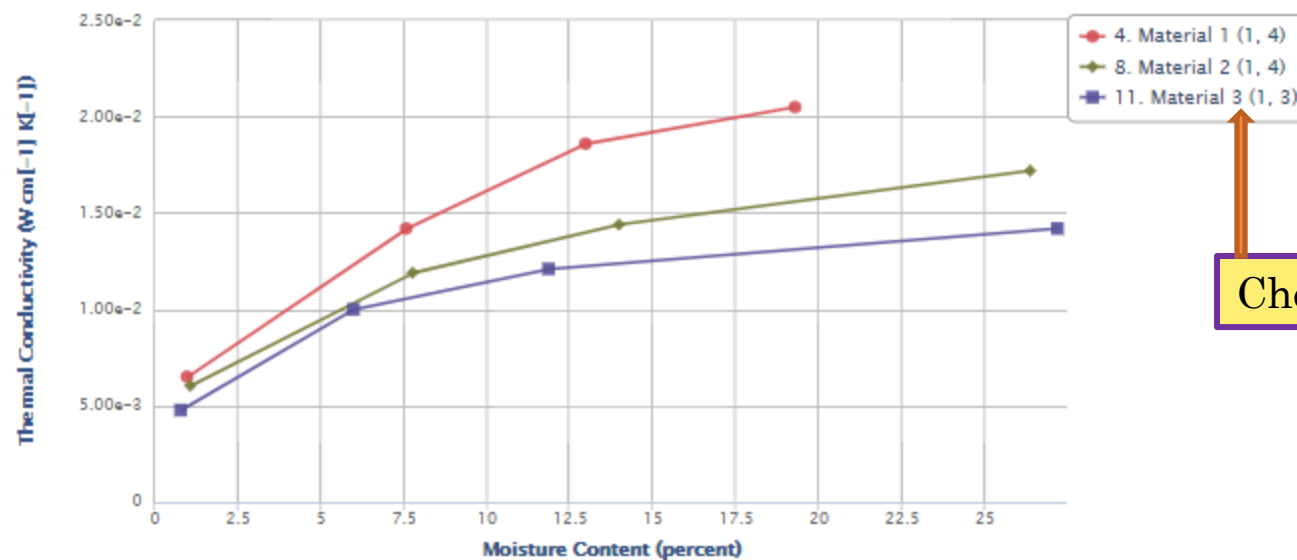
### Select Data Curves/Test Conditions ?

Select between one and twenty data curve descriptions from the list below to view graphs. Hold the Control key to select multiple data curves.

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- 2. M1 (1, 2) - C2: MC range 0.8 to 20%; measured at 300 mm Hg vacuum
- 3. M1 (1, 3) - C3: MC range 1.2 to 19.2%; measured at 500 mm Hg vacuum
- 4. M1 (1, 4) - C4: MC range 1 to 19.3%; measured at 740 mm Hg vacuum
- 5. M2 (1, 1) - C1: Moisture content (MC) range of 1.2 to 26.4% at 0 mm Hg vac

Thermal Conductivity vs Moisture Content  
 3 Materials



Choose materials M1, M2 and M3, types of clay

Choose Curves 4, 8 and 11.

# TPMD (version 10, data updated 2016.2)

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Property Group: Thermophysical Properties  
 Property: Thermal Conductivity (W cm<sup>-1</sup> K<sup>-1</sup>)   Logarithmic  
 Independent Variable: Moisture Content (percent)   Logarithmic

[Edit Selection](#)  
[Show Text](#)

## Select Materials ?

Select one or more materials from the list below. Hold the control key to select multiple materials. Available data curves will be displayed on the right. Then proceed to Step 2.

- M1: Clay, Ashkhabad
- M2: Clay, Beshkudnikov
- M3: Clay, Kuchin
- M4: Spruce

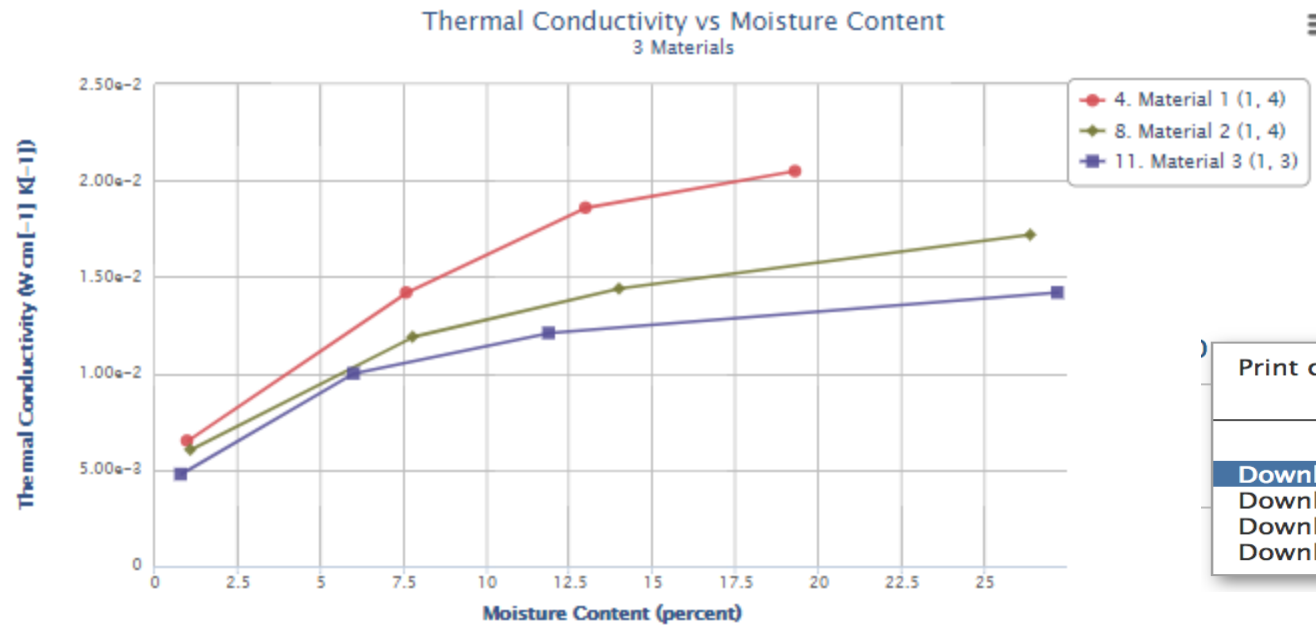
(Listing 4 materials)

## Select Data Curves/Test Conditions ?

Select between one and twenty data curve descriptions from the list below to view graphs. Hold the Control key to select multiple data curves.

Key: Selected Material: (Set, Curve) - Remarks

- 1. M1 (1, 1) - C1: Moisture content range (MC) of 1.2 to 19.8% at 0 mm Hg vac
- 2. M1 (1, 2) - C2: MC range 0.8 to 20%; measured at 300 mm Hg vacuum
- 3. M1 (1, 3) - C3: MC range 1.2 to 19.2%; measured at 500 mm Hg vacuum
- 4. M1 (1, 4) - C4: MC range 1 to 19.3%; measured at 740 mm Hg vacuum
- 5. M2 (1, 1) - C1: Moisture content (MC) range of 1.2 to 26.4% at 0 mm Hg vac



Choose to print or save in various formats

Print chart

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Property Group: Thermophysical Properties  
 Property: Thermal Conductivity (W cm[-1] K[-1])   Logarithmic  
 Independent Variable: Moisture Content (percent)   Logarithmic

### Select Materials ?

Select one or more materials from the list below. Hold the control key to select multiple materials. Available data curves will be displayed on the right. Then proceed to Step 2.

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- M2: Clay, Beshkudnikov
- M3: Clay, Kuchin
- M4: Spruce

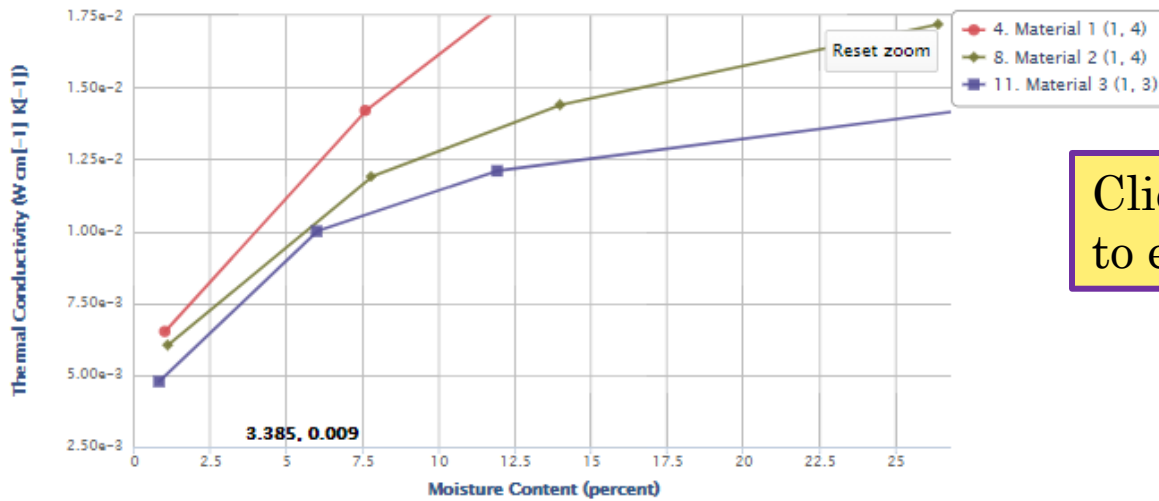
(Listing 4 materials)

### Select Data Curves/Test Conditions ?

Select between one and twenty data curve descriptions from the list below to view graphs. Hold the Control key to select multiple data curves.  
 Key: Selected Material: (Set, Curve) - Remarks

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- 2. M1 (1, 2) - C2: MC range 0.8 to 20%; measured at 300 mm Hg vacuum
- 3. M1 (1, 3) - C3: MC range 1.2 to 19.2%; measured at 500 mm Hg vacuum
- 4. M1 (1, 4) - C4: MC range 1 to 19.3%; measured at 740 mm Hg vacuum
- 5. M2 (1, 1) - C1: Moisture content (MC) range of 1.2 to 26.4% at 0 mm Hg vac

Thermal Conductivity vs Moisture Content  
 3 Materials



Click and drag cursor to expand graph.

Learn how to use advanced features in the [Help](#) section.



Property Group: Thermophysical Properties  
 Property: Thermal Conductivity (W cm<sup>-1</sup> K<sup>-1</sup>)   Logarithmic  
 Independent Variable: Moisture Content (percent)   Logarithmic

[Edit Selection](#)

[Show Text](#)

Select Materials ?

Select one or more materials from the list below. Hold the control key to select multiple materials. Available data curves will be displayed on the right. Then proceed to Step 2.

- M1: Clay, Ashkhabad ▲
- M2: Clay, Beshkudnikov ▲
- M3: Clay, Kuchin ▲
- M4: Spruce ▼

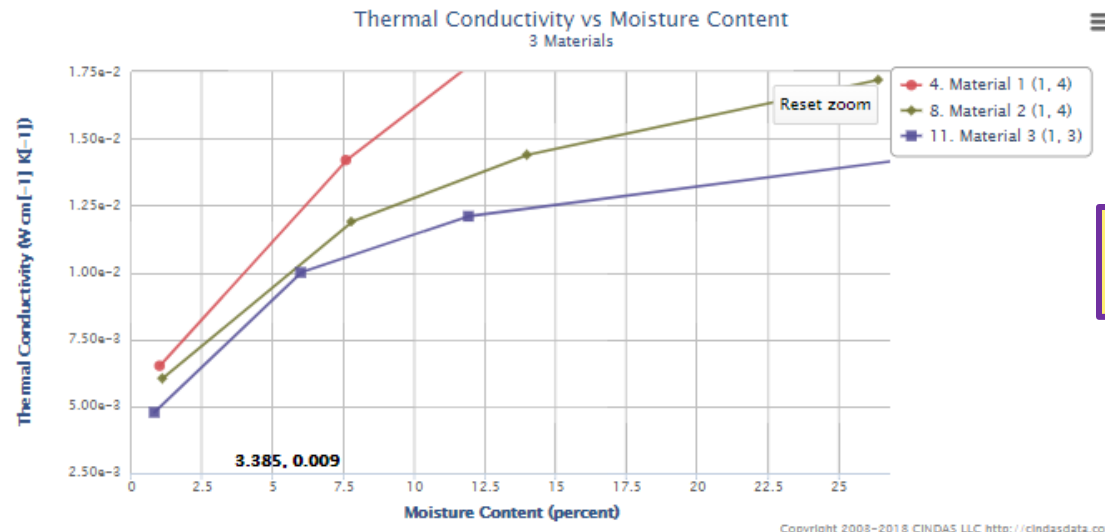
(Listing 4 materials)

Select Data Curves/Test Conditions ?

Select between one and twenty data curve descriptions from the list below to view graphs. Hold the Control key to select multiple data curves.

Key: Selected Material: (Set, Curve) - Remarks

- 1. M1 (1, 1) - C1: Moisture content range (MC) of 1.2 to 19.8% at 0 mm Hg vac ▲
- 2. M1 (1, 2) - C2: MC range 0.8 to 20%; measured at 300 mm Hg vacuum ▲
- 3. M1 (1, 3) - C3: MC range 1.2 to 19.2%; measured at 500 mm Hg vacuum ▲
- 4. M1 (1, 4) - C4: MC range 1 to 19.3%; measured at 740 mm Hg vacuum ▲
- 5. M2 (1, 1) - C1: Moisture content (MC) range of 1.2 to 26.4% at 0 mm Hg vac ▼



Click on Show Text to get actual data points.

Learn how to use advanced features in the [Help](#) section.

## Select Materials ?

Select one or more materials from the list below. Hold the control key to select multiple materials. Available data curves will be displayed on the right. Then proceed to Step 2.

- M1: Clay, Ashkhabad
- M2: Clay, Beshkudnikov
- M3: Clay, Kuchin
- M4: Spruce

(Listing 4 materials)

## Select Data Curves/Test Conditions

Select a dataset from the box to show text.

1. M1 (1, 1) - C1: Moisture content range (MC) of 1.2 to 19.8% at 0 mm Hg vac
2. M1 (1, 2) - C2: MC range 0.8 to 20%; measured at 300 mm Hg vacuum
3. M1 (1, 3) - C3: MC range 1.2 to 19.2%; measured at 500 mm Hg vacuum
4. M1 (1, 4) - C4: MC range 1 to 19.3%; measured at 740 mm Hg vacuum
5. M2 (1, 1) - C1: Moisture content (MC) range of 1.2 to 26.4% at 0 mm Hg vac

Material: Clay, Ashkhabad  
 Property: Thermal Conductivity (W cm<sup>-1</sup> K<sup>-1</sup>)  
 Independent Variable: Moisture Content (percent)  
 Ashkhabad specimens; specimen 70 mm in dia and 100 mm long;  
 volumetric weight 1200 Kg cm<sup>-3</sup>. Tested at 313.2 K.  
 Periodic or transient heat flow method used.

Conditions

C1: Moisture content (MC) range of 1.2 to 19.8% at 0 mm Hg vacuum.  
 C2: MC range 0.8 to 20%; measured at 300 mm Hg vacuum.  
 C3: MC range 1.2 to 19.2%; measured at 500 mm Hg vacuum.  
 C4: MC range 1 to 19.3%; measured at 740 mm Hg vacuum.  
 Method Used: Periodic or transient heat flow method

### Data Points

X	Y
Curve: 1	
1.200e+00	4.650e-03
8.000e+00	1.160e-02
1.400e+01	1.390e-02
1.980e+01	1.390e-02

Data

Curve: 2	
8.000e-01	5.110e-03
7.400e+00	1.210e-02
1.360e+01	1.580e-02
2.000e+01	1.670e-02

Curve: 3	
1.200e+00	6.040e-03
8.000e+00	1.390e-02
1.280e+01	1.740e-02
1.920e+01	1.880e-02

Curve: 4	
1.000e+00	6.510e-03
7.600e+00	1.420e-02
1.300e+01	1.860e-02
1.930e+01	2.050e-02

### References

Budnikov, P.P. et al; J. Appl. Chem (USSR), 25, 665-73, 1952  
 Budnikov, P.P. et al; Zhur. Priklad, Khim; 25, 582-91, 1952

## Select Materials ?

Select one or more materials from the list below. Hold the control key to select multiple materials. Available data curves will be displayed on the right. Then proceed to Step 2.

- M1: Clay, Ashkhabad
- M2: Clay, Beshkudnikov
- M3: Clay, Kuchin
- M4: Spruce

(Listing 4 materials)

## Select Data Curves/Test Conditions

Select a dataset from the box to show text.

1. M1 (1, 1) - C1: Moisture content range (MC) of 1.2 to 19.8% at 0 mm Hg vac
2. M1 (1, 2) - C2: MC range 0.8 to 20%; measured at 300 mm Hg vacuum
3. M1 (1, 3) - C3: MC range 1.2 to 19.2%; measured at 500 mm Hg vacuum
4. M1 (1, 4) - C4: MC range 1 to 19.3%; measured at 740 mm Hg vacuum
5. M2 (1, 1) - C1: Moisture content (MC) range of 1.2 to 26.4% at 0 mm Hg vac

Material: Clay, Ashkhabad  
 Property: Thermal Conductivity (W cm<sup>-1</sup> K<sup>-1</sup>)  
 Independent Variable: Moisture Content (percent)  
 Ashkhabad specimens; specimen 70 mm in dia and 100 mm long;  
 volumetric weight 1200 Kg cm<sup>-3</sup>. Tested at 313.2 K.  
 Periodic or transient heat flow method used.

C1: Moisture content (MC) range of 1.2 to 19.8% at 0 mm Hg vacuum.  
 C2: MC range 0.8 to 20%; measured at 300 mm Hg vacuum.  
 C3: MC range 1.2 to 19.2%; measured at 500 mm Hg vacuum.  
 C4: MC range 1 to 19.3%; measured at 740 mm Hg vacuum.  
 Method Used: Periodic or transient heat flow method

### Data Points

X	Y
---	---

### Curve: 1

1.200e+00	4.650e-03	C1: MC range of 1.2 to 19.8% at 0 mm Hg vacuum.
8.000e+00	1.160e-02	
1.400e+01	1.390e-02	
1.980e+01	1.390e-02	

### Curve: 2

8.000e-01	5.110e-03	C2: MC range 0.8 to 20%; measured at 300 mm Hg vacuum.
7.400e+00	1.210e-02	
1.360e+01	1.580e-02	
2.000e+01	1.670e-02	

### Curve: 3

1.200e+00	6.040e-03	C3: MC range 1.2 to 19.2%; measured at 500 mm Hg vacuum.
8.000e+00	1.390e-02	
1.280e+01	1.740e-02	
1.920e+01	1.880e-02	

### Curve: 4

1.000e+00	6.510e-03	C4: MC range 1 to 19.3%; measured at 740 mm Hg vacuum.
7.600e+00	1.420e-02	
1.300e+01	1.860e-02	
1.930e+01	2.050e-02	

### References

Budnikov, P.P. et al; J. Appl. Chem (USSR), 25, 665-73, 1952  
 Budnikov, P.P. et al; Zhur. Priklad, Khim; 25, 582-91, 1952

Curves from same reference are shown together.

Property Group: Thermophysical Properties  
Property: Thermal Conductivity (W cm<sup>-1</sup> K<sup>-1</sup>)   Logarithmic  
Independent Variable: Moisture Content (percent)   Logarithmic

[Edit Selection](#)

## Select Materials ?

Select one or more materials from the list below. Hold the control key to select multiple materials. Available data curves will be displayed on the right. Then proceed to Step 2.

M1: Clay, Ashkhabad  
M2: Clay, Beshkudnikov  
M3: Clay, Kuchin  
M4: Spruce

(Listing 4 materials)

Material: Clay, Ashkhabad  
Property: Thermal Conductivity (W cm<sup>-1</sup> K<sup>-1</sup>)  
Independent Variable: Moisture Content (percent)  
Ashkhabad specimens; specimen 70 mm in dia and 100 mm long;  
volumetric weight 1200 Kg cm<sup>-3</sup>. Tested at 313.2 K.  
Periodic or transient heat flow method used.

C1: Moisture content (MC) range of 1.2 to 19.8% at 0 mm Hg vacuum.  
C2: MC range 0.8 to 20%; measured at 300 mm Hg vacuum.  
C3: MC range 1.2 to 19.2%; measured at 500 mm Hg vacuum.  
C4: MC range 1 to 19.3%; measured at 740 mm Hg vacuum.  
Method Used: Periodic or transient heat flow method

### Data Points

X	Y
---	---

Curve: 1  
1.200e+00 4.650e-03 C1: MC range of 1.2 to 19.8% at 0 mm Hg vacuum.  
8.000e+00 1.160e-02  
1.400e+01 1.390e-02  
1.980e+01 1.390e-02

Curve: 2  
8.000e-01 5.110e-03 C2: MC range 0.8 to 20%; measured at 300 mm Hg vacuum.  
7.400e+00 1.210e-02  
1.360e+01 1.580e-02  
2.000e+01 1.670e-02

Curve: 3  
1.200e+00 6.040e-03 C3: MC range 1.2 to 19.2%; measured at 500 mm Hg vacuum.  
8.000e+00 1.390e-02  
1.280e+01 1.740e-02  
1.920e+01 1.880e-02

Curve: 4  
1.000e+00 6.510e-03 C4: MC range 1 to 19.3%; measured at 740 mm Hg vacuum.  
7.600e+00 1.420e-02  
1.300e+01 1.860e-02  
1.930e+01 2.050e-02

### References

Budnikov, P.P. et al; J. Appl. Chem (USSR), 25, 665-73, 1952  
Budnikov, P.P. et al; Zhur. Priklad, Khim; 25, 582-91, 1952

## Select Data Curves/Test Conditions

Select a dataset from the box to show text.

1. M1 (1, 1) - C1: Moisture content range (MC) of 1.2 to 19.8% at 0 mm Hg vac  
2. M1 (1, 2) - C2: MC range 0.8 to 20%; measured at 300 mm Hg vacuum  
3. M1 (1, 3) - C3: MC range 1.2 to 19.2%; measured at 500 mm Hg vacuum  
4. M1 (1, 4) - C4: MC range 1 to 19.3%; measured at 740 mm Hg vacuum  
5. M2 (1, 1) - C1: Moisture content (MC) range of 1.2 to 26.4% at 0 mm Hg vac

All data is referenced.





# QUESTIONS?

- Use the chat function on the screen to send us questions now.
- Questions later can always be sent to us
  - [info@cindasdata.com](mailto:info@cindasdata.com) or
  - [rob@cindasdata.com](mailto:rob@cindasdata.com) or
  - [patti@cindasdata.com](mailto:patti@cindasdata.com)

