

Soil thermal resistivity

Thermal resistivity depends mainly on soil composition (i.e. mineral, organics), texture (i.e. particle size grading), water content, and dry density. This complex interrelationship does not lend itself to a simple formula; testing must be carried out on any given soil to determine its resistivity.

You want high water content and high soil density (see next slide).

Air has a high thermal resistivity and therefore does not dissipate heat very well. Water dissipates heat better.

Soil with lowest thermal resistivity has maximum amount of soil grains & water.

Description	Thermal Resistivity Dry ($^{\circ}\text{C}\cdot\text{cm}/\text{W}$)
Soil Grains	
Quartz	12
Granite	30
Limestone	40
Sandstone	50
Shale (sound)	60
Shale (highly friable)	200
Mica	170
Others	
Ice	45
Water	165
Organics	~500
Oil (petroleum)	~800
Air	~4500

Source: Presentation slides of Geotherm Inc., "Importance of Soil Thermal Characteristic for Underground Power Cables," March 23, 2010, Spring 2010 ICC Meeting, Nashville, TN

Soil Material	(ρ)($^{\circ}\text{C}\cdot\text{cm}/\text{W}$)
Quartz Grains	11
Granite Grains	26
Limestone Grains	45
Sandstone Grains	58
Mica Grains	170
Water	165
Organic	400 Wet — 700 Dry
Air	4000

Source: IEEE Standard 442-1981, "IEEE Guide for Soil Thermal Resistivity Measurements," 1996.

Guide For Soil Thermal Resistivity Measurements

Rachel S Tattersall



Guide For Soil Thermal Resistivity Measurements:

Uncover the mysteries within is enigmatic creation, Discover the Intrigue in **Guide For Soil Thermal Resistivity Measurements** . This downloadable ebook, shrouded in suspense, is available in a PDF format (*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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SAFETY - Frequently Asked Questions - a worked example from the raw material supplier, which ... to conduct a mass balance test every 6 months for each claim or a single mass balance test every.