



Standard Guide for Selection and Use of Keywords for Thermal Insulation Test Methods and Standards¹

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1. Scope

1.1 This guide has been prepared for use by ASTM technical committees and others in the preparation of ASTM standards pertaining to thermal insulations and to materials associated with them.

1.2 The keywords appear in alphabetical order.

1.3 All ASTM standards require a list of appropriate terms for indexing called Keywords. Keywords shall be listed at the end of the draft standard and will appear in the published document.

2. Significance and Use

2.1 The purpose of the keyword list is to provide a standard set of words that can be used in the preparation and reference of documents. Keywords are used to search for information.

2.2 Keywords are not defined in this guide.

2.3 Words referring to the singular include the plural also.

3. Keywords

3.1
absorption
acoustical
adhesion
adhesive
aircraft
aluminum
aluminum foil
apparent
application
austenitic stainless steel
backer board
batts
black body
blanket
block
board
boil-off calorimeter
breaking load
breaking strength
bubble-pack insulation

bubble-pack reflective insulation
building envelope
building insulation
building technology
bulk density
burn potential
calcium silicate
calculated energy savings
calibration
calorimeter
ceiling panels
ceiling tiles
cellular glass
cellular materials
cellular plastic
cellular polystyrene
cellulose
cellulosic fiber
cement
chemical analysis
coatings
composite
composite foam insulation board
compressive pressure
compressive resistance
compressive strength
computer program
conditioning
consistency
construction and installation
convergence factor
cork
corrosion
cracking
cryogenic temperatures
curing
data time interval
deflection
deformation
delamination
density
design
design density
dished head segment

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doors
duct liner
duct work
ducts and equipment
dust
dynamic measurement
electrolytic copper
elevated temperature
emittance
error analysis
evacuated insulation
evacuated reflective insulation
expanded perlite
expanded vermiculite
expansion
experimental design
exterior exposure test
faced foam board
faced insulation
facing
felt
fenestration
fibrous glass
finishing
fire resistive
flanking loss
flexibility
flexible
flexural strength
foam
foil laminates
frame construction
friability
full scale testing
fungi resistance
glass fiber
granular
granular loose-fill
guarded hot plate apparatus
health hazards
heat
heat flow
heat flow meter apparatus
heat flux
heat flux transducer
heat gain
heat loss
heat transfer
hemispherical
high temperature calculation
high temperature insulation
hot-box
hot-surface performance
humid aging
hydraulic-setting
immersion
in-situ measurement
industrial application
infrared inspection
inorganic fiber
instrument verification
insulating cement
insulation
insulation cover
insulation system
interior radiation control coatings
intermediate density sheathing
interpretation of field data
IR emittance
jacketing material
laminate
leachable chlorides
length
light frame construction
line source heater
linear changes
linearity
lining
loading tests
loose fill
low emittance
low permeance
low temperature insulation
low-density
manufactured housing
mass loss
mastic
material
mathematical model
mean test temperature
mechanical process
membrane-faced
metal building
metal-mesh covered
metallic reflective insulation
method of mixtures
mineral fiber
minimum use temperature
modulus of elasticity
modulus of rupture (MOR)
moisture content
molded
mounting of heat flux transducers
multi-foil insulation
multilayer insulations
normal emittance
nuclear power plant
outdoor service vessel
paint-high reflectance
paint-high temperature
paint-spray applied
parting strength
penetration
performance criteria
perlite
permeability

phenolic
 physical properties
 pipe density
 pipe insulation
 pipe systems
 pipe thermal insulation diameter
 pipe thermal insulation dimension
 pipe thermal insulation thickness
 plane and radial calculation
 plastic sheet and film
 plastics (general)
 polyethylene terephthalate reference film
 polyisocyanurate
 polystyrene
 polyurethane
 precision V-groove
 preconditioning
 prefabricated insulation
 prefabricated panel
 preformed
 preformed thermal insulation
 program verification
 properties
 pseudo steady-state
 quality control
 R-value
 radial heat transfer
 radiant barrier system
 radiation
 radiation barrier
 radiation control coatings
 radiative transport
 reflectance
 reflective air space
 reflective coating
 reflective insulation
 reflective liner
 reflective paint
 reflective pipe insulation
 reflective system
 reflectivity
 regular density sheathing
 removable
 removable/reusable
 repair
 rigid
 rigid cellular plastic
 rigid cellular polyisocyanurate
 rigid cellular polystyrene
 rigid cellular polyurethane
 rigidity
 roof deck
 roof inspection
 roof insulation
 sampling
 sampling and acceptance criteria
 selecting temperatures
 selection
 selection and application
 sensor calibration
 sensor location
 sheet
 sheet material
 sheet radiant barrier
 shrinkage
 single-sided
 soaking heat test
 solar reflectance
 sound deadening board
 specific heat
 spray application
 spray applied
 squareness
 steady state
 stress corrosion cracking
 structural insulation
 summation technique
 surface resistance
 temperature test
 tenacity
 tensile strength
 tension
 test specimen preparation
 thermal
 thermal capacity
 thermal conductance
 thermal conductivity
 thermal contact
 thermal diffusivity
 thermal insulating cements
 thermal insulating material
 thermal insulating materials—blanket
 thermal insulating materials—block and board
 thermal insulating materials—block and pipe
 thermal insulating materials—board
 thermal insulating materials—cement
 thermal insulating materials—glass
 thermal insulating materials—loose fill
 thermal insulating materials—mineral fiber
 thermal insulating materials—pipe
 thermal insulating materials—preformed
 thermal insulating materials—reflective
 thermal insulating materials—rigid
 thermal insulation
 thermal insulation application
 thermal insulating fitting cover
 thermal insulation for austenitic stainless steel
 thermal insulation handling
 thermal insulation permeability film
 thermal insulation storage
 thermal integrity
 thermal performance
 thermal property
 thermal resistance
 thermal resistivity
 thermal testing

thermal transmission	verification
thermesthesiometer	vermiculite
thickness	vessel lagging
thin-heater apparatus	volume change
time-averaged vapor pressure	volume loss
total hemispherical emittance	wall sheathing
transducer design	warpage
transducer sensitivity	water absorption
transmission-water vapor	water equivalent
transverse strength	water retention
trueness	water vapor permeance
tubing thermal insulation thickness	water vapor sorption
tubular	water vapor transmission
tumble test	wet covering capacity
U-value	wet insulation
unguarded hot plate	width
vapor barrier finish	window
vapor retarder	

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