



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
chloride
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

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data time interval
 deflection
 deformation
 delamination
 density
 design
 design density
 dished head segment
 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
 fluoride
 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
 pH
 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
 silicate
 single-sided
 soaking heat test
 sodium
 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	tubular
thermal insulating fitting cover	tumble test
thermal insulation for austenitic stainless steel	U-value
thermal insulation handling	unguarded hot plate
thermal insulation permeability film	vapor barrier finish
thermal insulation storage	vapor retarder
thermal integrity	verification
thermal performance	vermiculite
thermal property	vessel lagging
thermal resistance	volume change
thermal resistivity	volume loss
thermal testing	wall sheathing
thermal transmission	warpage
thermesthesiometer	water absorption
thickness	water equivalent
thin-heater apparatus	water retention
time-averaged vapor pressure	water vapor permeance
total hemispherical emittance	water vapor sorption
transducer design	water vapor transmission
transducer sensitivity	wet covering capacity
transmission-water vapor	wet insulation
transverse strength	width
trueness	window
tubing thermal insulation thickness	

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