



## Standard Guide for Selection and Use of Keywords for Thermal Insulation Test Methods and Standards<sup>1</sup>

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

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