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Standard Guide for Selection and Use of Keywords for Thermal Insulation Test Methods and Standards[1]

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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
data time interval
deflection
deformation

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