



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

This standard is issued under the fixed designation C 1302; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

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

¹ This guide is under the jurisdiction of ASTM Committee C16 on Thermal Insulation and is the direct responsibility of Subcommittee C16.95 on Editorial.

Current edition approved May 1, 2004. Published May 2004. Originally approved in 1995. Last previous edition approved in 2002 as C 1302 – 95 (2002).

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
 thermal insulating fitting cover
 thermal insulation for austenitic stainless steel

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

ASTM International takes no position respecting the validity of any patent rights asserted in connection with any item mentioned in this standard. Users of this standard are expressly advised that determination of the validity of any such patent rights, and the risk of infringement of such rights, are entirely their own responsibility.

This standard is subject to revision at any time by the responsible technical committee and must be reviewed every five years and if not revised, either reapproved or withdrawn. Your comments are invited either for revision of this standard or for additional standards and should be addressed to ASTM International Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee, which you may attend. If you feel that your comments have not received a fair hearing you should make your views known to the ASTM Committee on Standards, at the address shown below.

This standard is copyrighted by ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959, United States. Individual reprints (single or multiple copies) of this standard may be obtained by contacting ASTM at the above address or at 610-832-9585 (phone), 610-832-9555 (fax), or service@astm.org (e-mail); or through the ASTM website (www.astm.org).