



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

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

<sup>1</sup> 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	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
rigid cellular polystyrene	thermal insulation application
rigid cellular polyurethane	thermal insulating fitting cover
rigidity	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).*