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## 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 ( $\epsilon$ ) 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  
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  
delamination  
density

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

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