

О Л И

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижегород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

эл.почта: tam@nt-rt.ru || сайт: <https://3m.nt-rt.ru/>



3M™ Thinsulate™ Acoustic Insulation TC2303



3M™ Engineered Damping Material EDM1029



3M™ Scotchfil™ Electrical Insulation Putty, 1-1/2 in x 60 in, 1 roll/carton, 12 rolls/case



3M™ Interam™ Mat Mount 1650HTG



3M™ Thinsulate™ Acoustic Insulation TC2203



3M™ Interam™ Mat Mount 1670HT



3M™ Thermal Runaway Barrier 600/700 Series



3M™ Battery Enhancement Material 1807S



3M™ Flexile Acoustic Material FAB0910



3M™ Interam™ Mat Mount
1680HT



3M™ Interam™ Mat Mount
1600HTE



3M™ Flame Barrier FRB



3M™ Thinsulate™ High
Temperature Acoustic Absorber
HT500C



3M™ Thinsulate™ Acoustic
Insulation TAI1590



3M™ Thinsulate™ Acoustic
Insulation AU4020



3M™ TufQUIN Insulating Paper



3M™ Thinsulate™ High
Temperature Acoustic Absorber
HT500P



3M™ Thinsulate™ Acoustic
Insulation TC3303



3M™ Thinsulate™ Acoustic Insulation AU6002



3M™ Layered Viscoelastic Damping Polymer SJ2040X



3M™ Thinsulate™ Acoustic Insulation TAI4027



3M™ Thinsulate™ Acoustic Insulation TAI2027



3M™ Thinsulate™ Acoustic Insulation AU6020



3M™ Flexile Acoustic Material FAB0510



3M™ Interam™ Mat Mount 800NC



3M™ Engineered Damping Material EDM1016



3M™ Thinsulate™ Acoustic Insulation TH4320



3M™ Thinsulate™ Acoustic Insulation TAI2047



3M™ CeQUIN Insulating Paper Laminate



3M™ Interam™ Mat Mount 7000NC



3M™ Thinsulate™ Acoustic Insulation TAI2099



3M™ Thinsulate™ Acoustic Insulation AU0920



3M™ CeQUIN Insulating Paper



3M™ ThermaVolt Insulating Paper



3M™ Thinsulate™ High Temperature Acoustic Absorber HT400P



3M™ Thinsulate™ Acoustic Insulation TAI3027



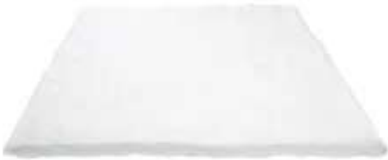
3M™ Thinsulate™ Acoustic Insulation AU1220



3M™ Flexile Acoustic Material FAB0310



3M™ Interam™ Mat Mount 800



3M™ Thinsulate™ Acoustic Insulation TAI3047



3M™ Thinsulate™ Acoustic Insulation AU2002



3M™ Interam™ Endcone Insulation 900HT



3M™ Interam™ Endcone Insulation 900HT-E



3M™ Thinsulate™ Acoustic Insulation TAI4031AL



3M™ Thinsulate™ Acoustic Insulation SM200L



3M™ Thinsulate™ Acoustic Insulation AU2020



3M™ Flexile Acoustic Material FAB1210



3M™ Flexile Acoustic Material FAB/SF Series



3M™ ThermaVolt Insulating AR Paper



3M™ ThermaVolt Insulating Paper Laminate TvF



3M™ Flexile Acoustic Material FAB0610



3M™ Interam™ Mat Mount 850HT



3M™ Thermal Barrier 5000 Series



3M™ Interam™ Mat Mount 1450HR



3M™ TufQUIN Insulating Paper Laminate



3M™ CeQUINBORD CGA Insulating Board



3M™ Thinsulate™ Acoustic Insulation TAI4047



3M™ Thinsulate™ Acoustic Insulation SM300L



3M™ Thinsulate™ Acoustic Insulation AU3002



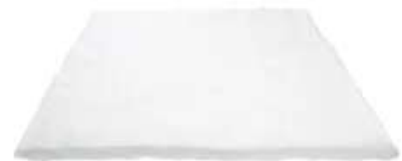
3M™ DMD High-Performance Laminate



3M™ Interam™ Mat Mount 100



3M™ Thinsulate™ Acoustic Insulation TC2203



3M™ Thinsulate™ Acoustic Insulation TAI1547



3M™ Thinsulate™ Acoustic
Insulation AU4002



3M™ Interam™ Mat Mount
5000NC



3M™ Interam™ Mat Mount
1700HF



3M™ Thinsulate™ Acoustic
Insulation TC1803



3M™ Thinsulate™ Acoustic
Insulation AU3020



3M™ Thinsulate™ Acoustic
Insulation TC1503



3M™ Thinsulate™ Acoustic
Insulation SM400L



3M™ Thinsulate™ Acoustic
Insulation AU3012



3M™ Damping Aluminum Foam
Sheets 4014



3M™ Sound Deadening Pads,
08840, 500 mm x 500 mm, 10
per case



3M™ ThermaVolt TvFTv
Calendered Inorganic Insulating
Paper Laminate 9 mil(3+3+3)

**3M™ ThermaVolt TvFTv Calendered Inorganic Insulating Paper
Laminate 9
mil(3+3+3)**

3M ID 7010413911 UPC 00638060412633

Details

High mechanical strength
Excellent thermal conductivity
Ideal for ground, layer and interwinding insulation
Approved for use in 3M UL Recognized Electrical Insulation Systems

3M™ Sound Deadening Pads, 08840, 500 mm x 500 mm, 10 per case

3M ID 7000043146 UPC 03134375385435

Details

Conformable pad quiets noise around trunks, door panels, hoods, floor pans and more

Self-adhesive material is easy to install without any special tools

Multi-purpose sound deadening mat reduces road noise, sound system vibrations, and rattles

Easy-to-cut material fits easily around a variety of stamped shapes

Center perforation allows easy door panel installation

Typical properties

Application: Absorbing, Reducing NVH, Sound Deadening, Vibration Damping

Brands: 3M™

Product Usage: Fender Liners, Luggage compartments, Trunk Liners, Vehicle Body Side Trim Panels, Vehicle Door Panels, Vehicle Door Trim Panels, Vehicle Pillars

Shelf Life: 48 Month

Surface Density (Imperial): 5306.4 lb/ft²

Surface Density (Metric): 85 g/m²

Dimensions and Classifications

Overall Length (Imperial): 19.685 in

Overall Length (Metric): 500 mm

Overall Width (Imperial): 19.685 in

Overall Width (Metric): 500 mm

3M™ Damping Aluminum Foam Sheets 4014

Details

Sheets make for excellent per-pound installed cost ratios on larger jobs
Absorbs and dissipates vibration and reduces noise in metal and plastic panels
Durable aluminum backing resists aging and moisture
250 mil open cell polyurethane foam absorbs and attenuates vibration
Acrylic adhesive aggressively bonds to structural surfaces
Easy to apply – only hand pressure required
Meets Federal Air Regulation Flammability Specifications for acoustical insulation materials F.A.R. 25.853(b)

Typical properties

Adhesive Type: Viscoelastic Polymer
Backing Material: Aluminum-urethane
Brands: 3M™
Maximum Operating Temperature (Celsius): 30 °C
Maximum Operating Temperature (Fahrenheit): 86 °F
Minimum Operating Temperature (Celsius): -70 °C
Minimum Operating Temperature (Fahrenheit): -94 °F
Product Form: Sheet
Product Series: AU
Units per Case: 15.0,25.0,1.0

Dimensions and Classifications

Overall Length (Imperial): 48 in
Overall Length (Metric): 1219.2 mm
Overall Width (Imperial): 6 in, 12 in, 18 in
Overall Width (Metric): 152.4 mm, 304.8 mm, 457.2 mm

3M™ Thinsulate™ Acoustic Insulation AU3012

3M Product Number AU3012 3M ID B40068148

Details

Delivers more acoustic absorption per unit weight vs. competitive products

Helps customers meet mass reduction goals

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Product can be converted through standard techniques such as die-cutting

Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: AU

3M™ Thinsulate™ Acoustic Insulation SM400L

3M Product Number SM400L 3M ID B40068128

Details

Delivers more acoustic absorption per unit weight vs. competitive products

Helps customers meet mass reduction goals

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Product can be converted through standard techniques such as die-cutting

Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: SM

3M™ Thinsulate™ Acoustic Insulation TC1503

3M Product Number TC1503 3M ID B40068127

Details

Among the highest performance-to-weight ratio of any 3M™ Thinsulate™ Acoustic Insulation

Excellent compression and recovery make the product ideal as a cavity filler

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Can be converted through standard techniques such as die-cutting

Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: TC

3M™ Thinsulate™ Acoustic Insulation AU3020

3M Product Number AU3020 3M ID B40068139

Details

Delivers more acoustic absorption per unit weight vs. competitive products

Helps customers meet mass reduction goals

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Product can be converted through standard techniques such as die-cutting

Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: AU

3M™ Thinsulate™ Acoustic Insulation TC1803

3M Product Number TC1803 3M ID B40068122

Details

The highest acoustic absorption per unit weight of any 3M™ Thinsulate™ Acoustic Insulation product

Excellent compression and recovery make the product ideal as a cavity filler

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Can be converted through standard techniques such as die-cutting

Global portfolio, technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: TC

3M™ Interam™ Mat Mount 1700HF

3M Product Number 1700HF 3M ID B40067446

Details

Low binder, non-intumescent mat with wide operating temperature range and proven high temperature durability
High friction layer offers increased performance compared to other polycrystalline products
High holding force resists high vibration conditions
Industry leading engine durability testing and technical knowledge

Typical properties

Application: Mounting, Thermal Insulation Enhancement
Product Usage: Catalytic Converters, Diesel Systems, Exhaust Aftertreatment Systems, Gasoline Systems

3M™ Interam™ Mat Mount 5000NC

3M Product Number 5000NC 3M ID B40067430

Details

Incorporates non-classified ceramic fibers conforming to European regulations
Proven wide temperature range durability and performance
High erosion resistance
Fiber resiliency provides holding force throughout a wide range of operating temperatures (ambient to ~850oC inlet gas)
Very good low temperature performance

Typical properties

Application: Mounting, Thermal Insulation Enhancement
Product Usage: Catalytic Converters, Diesel Systems, Exhaust Aftertreatment Systems

3M™ Thinsulate™ Acoustic Insulation AU4002

3M Product Number AU4002 3M ID B40068121

Details

Delivers more acoustic absorption per unit weight vs. competitive products

Helps customers meet mass reduction goals

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Product can be converted through standard techniques such as die-cutting

Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: AU

3M™ Thinsulate™ Acoustic Insulation TAI1547

3M Product Number TAI1547 3M ID B40068160

Details

Thin mat material is engineered specifically as an acoustic absorber for automotive interiors

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Can be converted through standard techniques such as die-cutting

Global portfolio, technical expertise help ensure you choose the right solution to meet your goals

3M™ Interam™ Mat Mount 100

3M Product Number 100 3M ID B40067431

Details

Intumescent mat providing high expansion pressure
Cost effective solution compared to other Interam mat mount products
Designed for use with moderate operating temperatures (450°C - 950°C)
Industry leading engine durability testing and technical knowledge

Typical properties

Application: Mounting, Thermal Insulation Enhancement
Product Usage: Catalytic Converters, Exhaust Aftertreatment Systems, Gasoline Systems

3M™ DMD High-Performance Laminate

Details

Tear-resistant, polyester film offers high mechanical strength
Offers good dielectric stability and high thermal conductivity
Ideal for slot cell, phase, wedge, ground and layer insulation
Specially formulated non-woven paper is bonded to polyester film on both the sides
Suitable for high-temperature electrical insulation applications rated up to Class 180(H)
Found in 3M UL Recognized Insulation Systems

Typical properties

Application: Motor/Generator, Other
Construction: Laminate
Electrical Insulation System Thermal Class: 180C
Film Thickness (Imperial): 2 in, 3 in, 5 in, 7.5 in, 10 in, 14 in
Film Thickness (Metric): 0.0508 mm, 0.0762 mm, 0.127 mm, 0.1905 mm, 0.254 mm, 0.3556 mm
Flexible Insulation Product: DMD and DMD 180 High-Performance Flexible Laminates
Insulation Construction: Paper Laminate
Laminate Construction: 2+2+2, 3+10+3, 3+14+3, 3+2+3, 3+3+3, 3+5+3, 3+7.5+3, 5+14+5, 5+3+5, 5+5+5
Mechanical Strength: Best
Product Type: Electrical Insulation Paper
Thermal Class: 180 °C
Thermal Conductivity: Good
Total Thickness: 6 mil, 8 mil, 9 mil, 11 mil, 13 mil, 13.5 mil, 15 mil, 16 mil, 20 mil, 24 mil

Dimensions and Classifications

Overall Thickness (Imperial): 6 in, 8 in, 9 in, 11 in, 13.5 in, 15 in, 16 in, 20 in, 24 in
Overall Thickness (Metric): 0.1524 mm, 0.2032 mm, 0.2286 mm, 0.2794 mm, 0.3429 mm, 0.381 mm, 0.4064 mm, 0.508 mm, 0.6096 mm
Overall Width (Imperial): 36 in
Overa

3M™ Thinsulate™ Acoustic Insulation AU3002

3M Product Number AU3002 3M ID B40068118

Details

Delivers more acoustic absorption per unit weight vs. competitive products

Helps customers meet mass reduction goals

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Product can be converted through standard techniques such as die-cutting

Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: AU

3M™ Thinsulate™ Acoustic Insulation SM300L

3M Product Number SM300L 3M ID B40068158

Details

Delivers more acoustic absorption per unit weight vs. competitive products

Helps customers meet mass reduction goals

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Product can be converted through standard techniques such as die-cutting

Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: SM

3M™ Thinsulate™ Acoustic Insulation TAI4047

3M Product Number TAI4047 3M ID B40068134

Details

Mat material is engineered specifically as an acoustic absorber for automotive interiors
Non-woven sound absorbing fibers create a quieter vehicle environment
Hydrophobic fibers resist moisture, mold and mildew
Embossed surface resists abrasion during and after installation
Can be converted through standard techniques such as die-cutting
Global portfolio, technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: TAI

3M™ CeQUINBORD CGA Insulating Board

Details

Designed for electrical insulation applications
Offers thermal and dielectric stability
Used in spiral- and convolute-wound tubing, traction motors, generators, switchgears and flame-barrier applications for home appliances
Dissipates heat build-up in electrical equipment
Composed primarily of glass fibers and microfibers, inorganic fillers and less than 10% organic binders
Withstands temperatures over 482 °F (250 °C)

Typical properties

Application: Dry-Type Transformer, Other
Construction: Pure Paper
Electrical Insulation System Thermal Class: 220C
Flexible Insulation Product: CeQUINBORD Inorganic Insulating Boards
Insulation Construction: Board
Laminate Construction: None
Mechanical Strength: Best
Product Type: Electrical Insulation Board, Inorganic
Thermal Class: 220 °C
Thermal Conductivity: Better
Total Thickness: 1 in, 3 in

Dimensions and Classifications

Overall Thickness (Imperial): 30 in, 60 in, 90 in, 125 in
Overall Thickness (Metric): 0.76 mm, 1.52 mm, 2.29 mm, 3.18 mm

3M™ TufQUIN Insulating Paper Laminate

Details

Tear-resistant, polyester film offers high mechanical strength
Offers high tensile strength and low moisture absorption
Ideal for slot cell, phase, wedge, ground and layer insulation
TufQUIN inorganic hybrid insulating paper is bonded to 2 layers of polyester film
Suitable for high-temperature electrical insulation applications rated up to Class 200(N)
Found in 3M UL Recognized Insulation Systems

Typical properties

Film Thickness (Imperial): 1 in, 2 in, 3 in, 5 mil, 5 in, 7.5 in, 10 in, 14 in
Film Thickness (Metric): 0.0254 mm, 0.0508 mm, 0.0762 mm, 0.127 mm, 0.1905 mm, 0.254 mm, 0.3556 mm
Outer Thickness (Imperial): 3 mil
Outer Thickness (Metric): 0.0762 mm
Thermal Class: 200 °C

Dimensions and Classifications

Overall Thickness (Imperial): 4 in, 5 in, 6 in, 7 in, 8 in, 9 in, 10 in, 11 mil, 11 in, 12 in, 12.5 in, 13 in, 13.5 in, 14 in, 15 in, 16 in, 17.5 in, 19 in, 20 in, 24 in, 29 in
Overall Thickness (Metric): 0.1016 mm, 0.127 mm, 0.1524 mm, 0.1778 mm, 0.2032

3M™ Interam™ Mat Mount 1450HR

3M Product Number 1450HR 3M ID B5005036121

Details

High temperature resistant
Low organic binder
Designed to generate high compression

Typical properties

Application: Mounting, Thermal Insulation Enhancement
Product Usage: Catalytic Converters, Diesel Systems, Exhaust Aftertreatment Systems, Gasoline Systems

3M™ Thermal Barrier 5000 Series

3M Product Number TB5000 3M ID B5005297027

Details

Provides thermal runaway protection for cells and electrical components in high energy density cylindrical cell designs
Balances low density with high fire resistance
Low thermal conductivity (0.1-0.2 W/m·K)
Flame resistant (LOI greater than 26%)
High dielectric strength (greater than 5.5 kV AC)
Low density of 0.55-0.80 g/ml (cured parts only)
Sag resistance

Typical properties

Application: Thermal Runaway Propagation Mitigation
Product Usage: Battery Packs
eClass 14 Classification Group: 40020202

3M™ Interam™ Mat Mount 850HT

3M ID B5005329006

Details

- Good retention performance over wide operating temperature range (ambient to 1050 °C MMI)
- Single part construction for larger mounting gaps 5.0 mm - 8.0 mm
- Excellent canning performance
- Reduced thickness and improved canning assembly process properties (reduced shear)
- Design and manufacturing simplification
- Lower cost alternative to non-intumescent mat mounts

Typical properties

- Application: Mounting, Thermal Insulation Enhancement
- Product Usage: Catalytic Converters, Exhaust Aftertreatment Systems, Gasoline Systems

3M™ Flexile Acoustic Material FAB0610

3M Product Number FAB0610 3M ID B5005388011

Details

Thin product (10 mm) with high acoustic performance
Absorber and barrier performance in a non-molded single layer
Excellent acoustic performance at 800 Hz and above
Lightweight system solution

Typical properties

Product Series: FAB

3M™ ThermaVolt Insulating Paper Laminate TvF

Details

High mechanical strength
Excellent thermal conductivity
Ideal for ground, layer and interwinding insulation
Approved for use in 3M UL Recognized Electrical Insulation Systems
Suitable for high-temperature electrical insulation applications rated up to Class 220(R)
Found in 3M UL Recognized Insulation Systems

Typical properties

Film Thickness (Imperial): 1 in, 2 in, 5 in, 7.5 in, 14 in
Film Thickness (Metric): 0.0254 mm, 0.0508 mm, 0.127 mm, 0.1905 mm, 0.3556 mm
Thermal Class: 220 °C

Dimensions and Classifications

Overall Thickness (Imperial): 7 in, 8 in, 10 in, 15 in, 17.5 in, 28 in
Overall Thickness (Metric): 0.1778 mm, 0.2032 mm, 0.254 mm, 0.381 mm, 0.4445 mm, 0.7112 mm
Overall Width (Imperial): 36 in
Overall Width (Metric): 914.4 mm

3M™ ThermaVolt Insulating AR Paper

Details

Enhanced tensile strength and tear resistance, even in single-ply form
Provides high thermal stability for improved coil performance
Long-term voltage endurance. Resists damage due to partial discharge, providing longer insulation life
Maintains its integrity while remaining conformable
Low moisture absorption provides excellent dimensional stability
Approved for use in 3M UL Recognized Electrical Insulation Systems
Found in 3M UL Recognized Insulation Systems

Typical properties

Application: Dry-Type Transformer, Other
Electrical Insulation System Thermal Class: 220C
Flexible Insulation Product: ThermaVolt and ThermaVolt AR Calendered
Inorganic Insulating Papers and Laminates
Insulation Construction: Pure Paper
Mechanical Strength: Better
Product Type: Inorganic
Thermal Class: 220 °C
Thermal Conductivity: Better
Total Thickness: 4 mil, 5 mil, 7 mil, 10 mil, 15 mil, 20 mil, 30 mil

Dimensions and Classifications

Overall Thickness (Imperial): 4 mil, 5 mil, 7 mil, 10 mil, 15 mil, 20 mil, 30 mil
Overall Thickness (Metric): 101 micron, 127 micron, 178 micron, 254 micron, 381 micron, 508 micron, 762 micron

3M™ Flexile Acoustic Material FAB/SF Series

3M ID B5005389003

Details

High performance across a broad range of frequencies
Increased design flexibility from ability to perform where pass through holes exist
Reduced development lead time from elimination of molds

3M™ Flexile Acoustic Material FAB1210

3M Product Number FAB1210 3M ID B5005388012

Details

High acoustic performance material with 19.5 mm thickness
Absorber and barrier performance in a non-molded single layer
Excellent acoustic performance at 500 Hz and above
Excellent to address tire and road noise (600 – 1200 Hz)
Lightweight system solution

Typical properties

Product Series: FAB

3M™ Thinsulate™ Acoustic Insulation AU2020

3M Product Number AU2020 3M ID B40068136

Details

Delivers more acoustic absorption per unit weight vs. competitive products

Helps customers meet mass reduction goals

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Product can be converted through standard techniques such as die-cutting

Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: AU

3M™ Thinsulate™ Acoustic Insulation SM200L

3M Product Number SM200L 3M ID B40068149

Details

Delivers more acoustic absorption per unit weight vs. competitive products

Helps customers meet mass reduction goals

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Product can be converted through standard techniques such as die-cutting

Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: SM

3M™ Thinsulate™ Acoustic Insulation TAI4031AL

3M Product Number TAI4031AL 3M ID B40068144

Details

Lightweight mat material is engineered specifically as an acoustic absorber for automotive interiors
Non-woven sound absorbing fibers create a quieter vehicle environment
Hydrophobic fibers resist moisture, mold and mildew
Can be converted through standard techniques such as die-cutting
Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

3M™ Interam™ Endcone Insulation 900HT-E

3M Product Number 900HT-E 3M ID B40068371

Details

- Incorporates multiple fiber technologies to deliver optimized performance and value
- High temperature durability and wide temperature range performance
- Potential for lower cost solution with molded parts vs. traditional die-cut insulation parts
- Maintains insulating system durability
- Extensive engine durability testing and technical knowledge based on more than 30 years of expertise in the automotive emissions solutions industry

3M™ Interam™ Endcone Insulation 900HT

3M Product Number 900HT 3M ID B40067435

Details

Cost-effective, non-intumescent solution for insulation applications
High temperature durability and wide temperature range performance for insulation
Low thermal conductivity
Extensive engine durability testing and technical knowledge based on more than 30 years of expertise in the automotive emissions solutions industry

3M™ Thinsulate™ Acoustic Insulation AU2002

3M Product Number AU2002 3M ID B40068123

Details

Delivers more acoustic absorption per unit weight vs. competitive products

Helps customers meet mass reduction goals

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Product can be converted through standard techniques such as die-cutting

Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: AU

3M™ Thinsulate™ Acoustic Insulation TAI3047

3M Product Number TAI3047 3M ID B40068129

Details

Mat material is engineered specifically as an acoustic absorber for automotive interiors
Non-woven sound absorbing fibers create a quieter vehicle environment
Calendered scrim resist abrasion during and after installation
Hydrophobic fibers resist moisture, mold and mildew
Can be converted through standard techniques such as die-cutting
Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: TAI

3M™ Interam™ Mat Mount 800

3M Product Number 800 3M ID B40067440

Details

Designed for reduced peak holding forces, with an overall reduced bulk density for thin wall substrates

Intumescent mat mount with low binder content and increased resiliency to maximize low temperature performance

Expands with heat to provide holding force throughout a wide range of operating temperatures

Helps increase throughput –through low peak compression pressure

Compensates for extreme differences in the expansion of metal and ceramics

Protects the substrates from road shocks and vibrations while the catalytic converter is in use

Seals the monolith perimeter to prevent exhaust gas bypass

Maintains mounting and insulating system durability

Extensive engine durability testing and technical knowledge based on more than 30 years of expertise in automotive emissions

Typical properties

Application: Mounting, Thermal Insulation Enhancement

Product Usage: Catalytic Converters, Diesel Systems, Exhaust Aftertreatment Systems, Gasoline Systems

3M™ Flexile Acoustic Material FAB0310

3M Product Number FAB0310 3M ID B5005388010

Details

Thin product (4.5 mm) with high acoustic performance
Absorber and barrier performance in a non-molded single layer
Excellent acoustic performance at 2000 Hz and above
Lightweight system solution

Typical properties

Product Series: FAB

3M™ Thinsulate™ Acoustic Insulation AU1220

3M Product Number AU1220 3M ID B40068119

Details

Delivers more acoustic absorption per unit weight vs. competitive products

Helps customers meet mass reduction goals

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Product can be converted through standard techniques such as die-cutting

Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: AU

3M™ Thinsulate™ Acoustic Insulation TAI3027

3M Product Number TAI3027 3M ID B40068131

Details

Thin mat material is engineered specifically as an acoustic absorber for automotive interiors

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Polyolefin scrim on one side protects fibers

Can be converted through standard techniques such as die-cutting

Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: TAI

3M™ Thinsulate™ High Temperature Acoustic Absorber HT400P

Part Number HT400P 3M Product Number HT400P 3M ID B40068162

Details

Material is engineered to help OEMs meet engine compartment common noise reduction requirements

Less material is required to meet absorption targets for smaller acoustical absorption packages

Helps OEMs meet weight reduction targets and improved fuel consumption goals

Non-woven fibers deliver higher sound absorption performance vs. PU foam parts

Resists temperatures of 302°F (150°C) for 336 hours or 356°F (180°C) for 48 hours

Does not require special handling associated with fiberglass

Lighter weight product than most current engine-compartment solutions

Can be converted into shapes and configurations to fit OEM and Tier application needs

Global portfolio, technical expertise help ensure you choose the right solution to meet your goals

3M™ ThermaVolt Insulating Paper

Details

Provides high thermal conductivity for improved heat dissipation
Long-term voltage endurance. Resists damage due to partial discharge, providing longer insulation life
Ideal for high-temperature electrical insulating applications
Compatible with commonly used impregnating resins and varnishes
Approved for use in 3M UL Recognized Electrical Insulation Systems
Found in 3M UL Recognized Insulation Systems

Typical properties

Application: Dry-Type Transformer, Other
Construction: Pure Paper
Electrical Insulation System Thermal Class: 220C
Flexible Insulation Product: ThermaVolt and ThermaVolt AR Calendered
Inorganic Insulating Papers and Laminates
Insulation Construction: Pure Paper
Laminate Construction: None
Mechanical Strength: Good
Product Type: Inorganic
Structure: Three-ply Composite/Single Film
Thermal Class: 220 °C
Thermal Conductivity: Best
Total Thickness: 5 mil, 7 mil, 10 mil, 15 mil

Dimensions and Classifications

Overall Thickness (Imperial): 5 mil, 7 mil, 10 mil, 15 mil
Overall Thickness (Metric): 127 micron, 178 micron, 254 micron, 381 micron

3M™ CeQUIN Insulating Paper

Details

Offers greater voltage endurance, high thermal conductivity and long-term dielectric strength

Provides low moisture absorption, even in humid environments

Ideal for dry-type transformers, traction motors, generators, battery separators and electromagnet layer insulation applications

Compatible with commonly used impregnating resins and varnishes

Suitable for high-temperature electrical insulation applications rated up to Class 220(R)

Found in 3M UL Recognized Insulation Systems

Typical properties

Application: Dry-Type Transformer, Other

Construction: Pure Paper

Electrical Insulation System Thermal Class: 220C

Flexible Insulation Product: CeQuin Inorganic Insulating Papers and Laminates

Insulation Construction: Pure Paper

Laminate Construction: None

Mechanical Strength: Good

Product Type: Inorganic

Thermal Class: 220 °C

Thermal Conductivity: Better

Total Thickness: 3 mil, 5 mil, 7 mil, 10 mil, 15 mil, 20 mil, 30 mil, 50 mil, 60 mil

Dimensions and Classifications

Overall Thickness (Imperial): 3 mil, 5 mil, 7 mil, 10 mil, 15 mil, 20 mil, 30 mil, 50 mil, 60 mil

Overall Thickness (Metric): 76 micron, 127 micron, 178 micron, 254 micron, 381 micron, 508 micron, 762 micron, 1270 micron, 1520 micron

3M™ Thinsulate™ Acoustic Insulation AU0920

3M Product Number AU0920 3M ID B40068143

Details

Delivers more acoustic absorption per unit weight vs. competitive products

Helps customers meet mass reduction goals

Combination of non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Roll product can be converted through standard techniques such as die-cutting

Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: AU

3M™ Thinsulate™ Acoustic Insulation TAI2099

3M Product Number TAI2099 3M ID B40068138

Details

Thin mat material is engineered specifically as an acoustic absorber for automotive interiors

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Can be converted through standard techniques such as die-cutting

Global portfolio, technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: TAI

3M™ Interam™ Mat Mount 7000NC

3M Product Number 7000NC 3M ID B40067439

Details

Designed for automobile, truck and off-road exhaust after treatment systems including DOC, DPF and SCR

Wide operating temperature range (ambient to ~750°C)

Contains solely non-classified inorganic fibers, conforming to German workplace and European laws

Composed of very low binder content for low-temp diesel applications

Intumescent material delivers heat expansion to cushion and hold the monolith for longer life

Excellent for designs incorporating large-diameter substrates with high gap openings

Gap opening compensation is suitable for isothermic conditions

Typical properties

Application: Mounting, Thermal Insulation Enhancement

Product Usage: Catalytic Converters, Diesel Systems, Exhaust Aftertreatment Systems

3M™ CeQUIN Insulating Paper Laminate

Details

Tear-resistant, polyester film offers high mechanical strength
Offers good dielectric stability and high thermal conductivity
Ideal for ground, layer, and interwinding insulation
Suitable for high-temperature electrical insulation applications rated up to Class 220(R)

Typical properties

Film Thickness (Imperial): 1 in, 1.5 in, 2 in, 3 in, 10 in
Film Thickness (Metric): 0.0254 mm, 0.0381 mm, 0.0508 mm, 0.0762 mm, 0.254 mm
Laminate Construction: 5+3+5
Outer Thickness (Imperial): 5 mil, 7 mil, 10 mil, 11.5 mil, 12 mil
Outer Thickness (Metric): 0.13 mm, 0.18 mm, 0.25 mm, 0.29 mm, 0.3 mm
Thermal Class: 220 °C

Dimensions and Classifications

Overall Thickness (Imperial): 4 in, 5 in, 6 in, 7 in, 8 in, 9 in, 10 in, 11 in, 11.5 in, 12 in, 13 mil, 16 in, 17 in, 20 in
Overall Thickness (Metric): 0.1016 mm, 0.127 mm, 0.1524 mm, 0.1778 mm, 0.2032 mm, 0.2286 mm, 0.254 mm, 0.2794 mm, 0.2921 mm, 0.304 mm

3M™ Thinsulate™ Acoustic Insulation TAI2047

3M Product Number TAI2047 3M ID B40068132

Details

Thin mat material is engineered specifically as an acoustic absorber for automotive interiors

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Calendering on both sides resists abrasion during and after installation

Can be converted through standard techniques such as die-cutting

Global portfolio, technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: TAI

3M™ Thinsulate™ Acoustic Insulation TH4320

3M Product Number TH4320 3M ID B40068126

Details

Thin mat material is engineered specifically as an acoustic absorber for automotive interiors

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Exterior membranes on one or both sides protect fibers, enhance performance

Can be converted through standard techniques such as die-cutting

Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

3M™ Engineered Damping Material EDM1016

3M Product Number EDM1016 3M ID B5005089018

Details

Delivers comparable or better performance to conventional constrained layer damping (CLD) materials and is less than half the weight

Stand-off layer features low-density engineered stem web that optimizes damping performance

Damps structure-borne noise when lighter materials such as thin-gauge steel, aluminum and composites are used, without adding significant weight

Flexible, conformable material applies uniformly to complex shapes

Adhesive backing improves wet out and won't delaminate even at high temperatures

Can be installed in vertical or inverted applications

Meets requirements of many OEMs for low interior VOCs

Thickness of 1.6 mm allows for a wide range of installations where space is limited

3M™ Interam™ Mat Mount 800NC

3M ID B5005325092

Details

- Good low temperature operating performance
- Good retention performance over broad mount density range
- Wide operating temperature range (cold to ~750°C)
- Gap opening compensation for isothermal conditions
- Single part construction for mounting gaps from 4 to 10mm
- Film laminate for improved assembly and handling

Typical properties

- Application: Mounting, Thermal Insulation Enhancement
- Product Series: 800NC
- Product Usage: Catalytic Converters, Diesel Systems, Exhaust Aftertreatment Systems

3M™ Flexile Acoustic Material FAB0510

3M Product Number FAB0510 3M ID B5005392001

Details

Thin product (5.5 mm) with high acoustic performance
Absorber and barrier performance in a non-molded single layer
Excellent acoustic performance at 1250 Hz and above
Lightweight system solution

Typical properties

Product Series: FAB

3M™ Thinsulate™ Acoustic Insulation AU6020

3M Product Number AU6020 3M ID B40068147

Details

Delivers more acoustic absorption per unit weight vs. competitive products

Helps customers meet mass reduction goals

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Product can be converted through standard techniques such as die-cutting

Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: AU

3M™ Thinsulate™ Acoustic Insulation TAI2027

3M Product Number TAI2027 3M ID B40068117

Details

Thin mat material is engineered specifically as an acoustic absorber for automotive interiors

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Embossed polyolefin scrim protects fibers on one side

Can be converted through standard techniques such as die-cutting

Global portfolio, technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: TAI

3M™ Thinsulate™ Acoustic Insulation TAI4027

3M Product Number TAI4027 3M ID B40068120

Details

Mat material is engineered specifically as an acoustic absorber for automotive interiors
Non-woven sound absorbing fibers create a quieter vehicle environment
Hydrophobic fibers resist moisture, mold and mildew
Can be converted through standard techniques such as die-cutting
Global portfolio, technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: TAI

3M™ Layered Viscoelastic Damping Polymer SJ2040X

Details

Good thermal performance for long term applications at moderate temperatures
Use in applications that experience short high temperature excursions
Provides robust damping performance in applications that require low outgassing and ionic levels and still provide robust damping performance
Typical damping performance for Loss Factor and Storage Modulus falls between the 3M™ Viscoelastic Damping Polymers 112 and 130
Use in vibration and shock isolation designs

Typical properties

Adhesive Type: Viscoelastic Polymer
Application: Vibration Damping
Backing Material: Kraft Paper
Brands: 3M™
Maximum Operating Temperature (Celsius): 65 °C
Maximum Operating Temperature (Fahrenheit): 149 °F
Minimum Operating Temperature (Celsius): 0 °C
Minimum Operating Temperature (Fahrenheit): 32 °F
Nominal Thickness (Imperial): 21.5 mil
Nominal Thickness (Metric): 0.55 mm
Product Form: Roll
Surface Color: White
Units per Case: 2.0,18.0

Dimensions and Classifications

Overall Length (Imperial): 30 yd
Overall Length (Metric): 27.4 m, 27.43 m
Overall Width (Imperial): 0.5 in, 4 in
Overall Width (Metric): 12.7 mm, 101.6 mm

3M™ Thinsulate™ Acoustic Insulation AU6002

3M Product Number AU6002 3M ID B40068146

Details

Delivers more acoustic absorption per unit weight vs. competitive products

Helps customers meet mass reduction goals

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Product can be converted through standard techniques such as die-cutting

Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: AU

3M™ Thinsulate™ Acoustic Insulation TC3303

3M Product Number TC3303 3M ID B40068140

Details

Among the highest performance-to-weight ratio of any 3M™ Thinsulate™ Acoustic Insulation

Excellent compression and recovery make the product ideal as a cavity filler

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Can be converted through standard techniques such as die-cutting

Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: TC

3M™ Thinsulate™ High Temperature Acoustic Absorber HT500P

Part Number HT500P 3M Product Number HT500P 3M ID B40068155

Details

Advanced fiber technology specifically designed for a high-temp automotive acoustic absorber

Non-woven fibers deliver higher sound absorption performance vs. PU foam parts

Resists temperatures of 302°F (150°C) for 336 hours or 356°F (180°C) for 48 hours

Hydrophobic fibers resist moisture, mold and mildew

Material does not require special handling typically associated with fiberglass

High-performance black scrim resists fluids and chemicals

Can be converted into shapes and configurations to fit OEM and Tier application needs

3M™ TufQUIN Insulating Paper

Details

Mechanical strength suitable for rigorous winding applications
Offers excellent thermal conductivity, long-term voltage endurance and low moisture absorption
Ideal for dry-type transformers, traction motors, generators, wire and cable wrap, battery separators, spiral and convolute tubing applications
Compatible with commonly used impregnating resins and varnishes
Suitable for high-temperature electrical insulation applications rated up to Class 200(N)
Found in 3M UL Recognized Insulation Systems

Typical properties

Application: Dry-Type Transformer, Motor/Generator, Other
Construction: Laminate, Pure Paper
Electrical Insulation System Thermal Class: 200C
Flexible Insulation Product: TufQUIN Inorganic-Organic Hybrid Insulating Papers and Laminates
Insulation Construction: Pure Paper, Paper Laminate
Laminate Construction: 2+2+2, None
Mechanical Strength: Better, Best
Product Type: Electrical Insulation Paper
Thermal Class: 200 °C
Thermal Conductivity: Better, Good
Total Thickness: 3 mil, 5 mil, 6 mil, 7 mil, 7.5 mil, 10 mil, 15 mil

Dimensions and Classifications

Overall Thickness (Imperial): 3 mil, 5 mil, 7 mil, 7.5 mil, 10 mil, 15 mil
Overall Thickness (Metric): 76 micron, 127 micron, 178 micron, 190 micron, 254 micron, 381 micron

3M™ Thinsulate™ Acoustic Insulation AU4020

3M Product Number AU4020 3M ID B40068124

Details

Delivers more acoustic absorption per unit weight vs. competitive products

Helps customers meet mass reduction goals

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Product can be converted through standard techniques such as die-cutting

Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: AU

3M™ Thinsulate™ Acoustic Insulation TAI1590

3M Product Number TAI1590 3M ID B40068164

Details

Thin mat material is engineered specifically as an acoustic absorber for automotive interiors

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Can be converted through standard techniques such as die-cutting

Global portfolio, technical expertise help ensure you choose the right solution to meet your goals

3M™ Thinsulate™ High Temperature Acoustic Absorber HT500C

Part Number HT500C 3M Product Number HT500C 3M ID B40068166

Details

Material is engineered specifically as a high-temp automotive acoustic absorber
Non-woven fibers deliver higher sound absorption performance vs. PU foam parts

Resists temperatures of 302°F (150°C) for 336 hours or 356°F (180°C) for 48 hours

Hydrophobic fibers resist moisture, mold and mildew

Material does not require special handling typically associated with fiberglass

Black scrim designed for cosmetic purposes

Can be converted into shapes and configurations to fit OEM and Tier application needs

Typical properties

Product Series: HT

3M™ Flame Barrier FRB-NT

Details

Standard flame barriers for general purpose applications
Densified material provides higher dielectric strength
Smoother, low-dust surface for improved tape adhesion
UL94 V0, 5VA Flame rating at low thickness UL File E65069

Typical properties

Product Type: Flame Barrier Paper

Dimensions and Classifications

Overall Thickness (Imperial): 3 mil, 4 mil, 5 mil, 5.8 mil, 15 mil, 28 mil
Overall Thickness (Metric): 76 micron, 101 micron, 127 micron, 147 micron, 381 micron, 711 micron

3M™ Interam™ Mat Mount 1600HTE

Part Number 1600HTE 3M Product Number 1600HTE 3M ID B5005035343

Details

Non-intumescent, single layer mat solution is excellent for a wide range of designs
Needled polycrystalline fibers provide excellent mat erosion resistance
Ideal for gasoline underbody, close-coupled or manifold mounted converters
Works with all monolith cell densities, including ultra-thin walls
Very wide operating temperature range (ambient to ~1100°C)
Low organic binder content maintains low peak holding performance

Typical properties

Application: Mounting, Thermal Insulation Enhancement
Product Usage: Catalytic Converters, Diesel Systems, Exhaust Aftertreatment Systems, Gasoline Systems

3M™ Interam™ Mat Mount 1680HT

3M Product Number 1680HT 3M ID B5005541001

Details

- Low extractable sodium content (< 20 ppm)*
- Wide operating temperature range (up to 1100 °C)
- Single-layer mat solution for small to large gap designs
- Easy canning performance
- Does not contain REACH Substances of Very High Concern**
- Low organic content (less than 0.2%) leading to low secondary emissions
- Provides high holding force throughout temperature range for application
- Needled polycrystalline fiber construction enables robust, long-term durability performance
- High resilient fiber

Typical properties

- Application: Mounting, Thermal Insulation Enhancement
- Brands: Interam™
- Product Usage: Catalytic Converters, Diesel Systems, Gasoline Systems

3M™ Flexile Acoustic Material FAB0910

3M Product Number FAB0910 3M ID B5005286045

Details

Thin product (12 mm) with high acoustic performance
Absorber and barrier performance in a non-molded single layer
High absorption in mid and high frequencies
Lightweight system solution
Excellent to address tire and road noise (600 – 1200 Hz)

Typical properties

Product Series: FAB

3M™ Battery Enhancement Material 1807S

3M Product Number 1807S 3M ID B5005093060

Details

Designed to help keep electric vehicle (EV) batteries within their optimal temperature ranges

Conformable, highly compressible material can be used in gaps where other thermal management materials cannot be used

Can help prevent outside temperatures from heating the EV battery

Flame resistant

Stable roll good is easily converted for production efficiency

Provides excellent cavity filling

Performs well in high temperature applications

Typical properties

Application: Electrical Insulating, Flame Retardant, Temperature Management, Thermal Insulating

Product Usage: EV Batteries

3M™ Thermal Runaway Barrier 600/700 Series

3M Product Number 600/700 Series 3M ID B5005200019

Details

Fiber mat is flame resistant

Base mat has high temperature stability (up to 1200°C)

Compressible material can fit into specific gap/pressure for assembly and operation

Compressibility allows for flexibility as battery cells expand and shrink during cell cycling

Thin, non-classified fiber mat material

Good electrical resistance

Good dielectric performance

Thermal conductivity of $< 0.045 \text{ W/m}\cdot\text{K}$ at 25 °C (mat only)

Typical properties

Application: Thermal Runaway Propagation Mitigation

Product Usage: Battery Packs

eClass 14 Classification Group: 40020202

3M™ Interam™ Mat Mount 1670HT

3M ID B5005281000

Details

- Surface coating for lower push-in forces
- Wide range of operating temperatures (ambient to 1100°C)
- Single layer mat solution for small to large gap designs
- Light-duty and commercial vehicle applications, including gasoline and diesel particulate filters
- Excellent fiber resiliency for substrate retention
- Excellent erosion resistance
- Moderate peak compression force
- Low thermal conductivity
- Low organic content (approx. 2%)
- Color coating on mat monolith interface surface enables easy visual control during assembly

Typical properties

- Application: Mounting, Thermal Insulation Enhancement
- Product Series: 1670HT
- Product Usage: Catalytic Converters, Diesel Systems, Exhaust Aftertreatment Systems, Gasoline Systems

3M™ Thinsulate™ Acoustic Insulation TC2203

3M Product Number TC2203 3M ID B40068141

Details

Among the highest performance-to-weight ratio of any 3M™ Thinsulate™ Acoustic Insulation

Excellent compression and recovery make the product ideal as a cavity filler

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Can be converted through standard techniques such as die-cutting

Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: TC

3M™ Interam™ Mat Mount 1650HTG

3M Product Number 165HTG 3M ID B5005035342

Details

Non-intumescent, single layer mat solution is excellent for gap designs up to 6 mm

Suitable for ultra-thin wall monoliths, close-coupled or manifold mounted converters

Very wide operating temperature range (ambient to ~1100°C)

Needled polycrystalline fibers provide excellent mat erosion resistance

Very low (~1%) organic binder content suits particulate filter applications

Colored, coated surface on monolith side improves canning performance

Approved for diesel applications (DPF, SCR and DOC)

Typical properties

Application: Mounting, Thermal Insulation Enhancement

Brands: Interam™

Product Series: 1650HTG

Product Usage: Catalytic Converters, Diesel Systems, Exhaust Aftertreatment Systems, Gasoline Systems

3M™ Scotchfil™ Electrical Insulation Putty, 1-1/2 in x 60 in, 1 roll/carton, 12 rolls/case

3M ID 7000006089 UPC 00054007417507

Details

Non-corrosive mastic adhesive in a flexible tape form
UL Listed and RoHS 2011/65/EU Compliant
Suitable for temperatures from 32 to 176 °F (0 to 80 °C)

Typical properties

Adhesive Material: Mastic
Application: Sealing
Backing Material: Electrical Insulation Putty
Backing Thickness (Metric): 3.175 mm
Brands: Scotchfil™
Case Quantity: 12.0 Roll per Case
Dielectric Strength (V/mil): 22000
Elongation: 1000 %
Elongation at Break: 10
High Temperature Rating: 176°F (80°C)
Insulated: Yes
Low Temperature Rating: 32°F (0°C)
Material: Electrical Grade Putty
Maximum Temperature Rating (Celsius): 80 °C
Maximum Temperature Rating (Fahrenheit): 176 °F
Minimum Temperature Rating (Celsius): 0 °C
Minimum Temperature Rating (Fahrenheit): 32 °F
Operating Temperature (Celsius): 0 to 80 Degree Celsius
Operating Temperature (Fahrenheit): 32 °F to 176 °F
Product Color: Black
Product Type: Mastic tape
Self-extinguishing: No
Self-sticking: Yes
Shelf Life: 5 Year
Solution for: Wireless Network: Infrastructure Accessories
Suitable for High Voltage: No
Tape Grade: Premium
Tape Length (Metric): 1.5 m
Tape Type: Sealing and Insulating Mastic
Tape Width (Metric): 38 mm
Temperature Protected Till: 80 °C
Total Thickness: 3.175 mm
UV Resistant: Yes
Voltage Application: Low Voltage
Vulcanizing: No
eClass 14 Classification Group: 27400304

Dimensions and Classifications

Overall Length (Imperial): 60 in
Overall Length (Metric): 1.524 m
Overall Width (Imperial): 1.5 in
Overall Width (Metric): 38.1 mm

3M™ Engineered Damping Material EDM1029

3M Product Number EDM1029 3M ID B5005093054

Details

Delivers comparable or better performance to conventional constrained layer damping (CLD) materials and is less than half the weight

Stand-off layer features low-density engineered stem web that optimizes damping performance

Damps structure-borne noise when lighter materials such as thin-gauge steel, aluminum and composites are used, without adding significant weight

Flexible, conformable material applies uniformly to complex shapes

Adhesive backing improves wet out and won't delaminate even at high temperatures

Can be installed in vertical or inverted applications

Meets requirements of many OEMs for low interior VOCs

Thickness of 2.9 mm allows for a wide range of installations where space is limited

3M™ Thinsulate™ Acoustic Insulation TC2303

3M Product Number TC2303 3M ID B40068125

Details

Among the highest performance-to-weight ratio of any 3M™ Thinsulate™ Acoustic Insulation

Excellent compression and recovery make the product ideal as a cavity filler

Non-woven sound absorbing fibers create a quieter vehicle environment

Hydrophobic fibers resist moisture, mold and mildew

Can be converted through standard techniques such as die-cutting

Global portfolio and technical expertise help ensure you choose the right solution to meet your goals

Typical properties

Product Series: TC

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижегород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

эл.почта: tam@nt-rt.ru || сайт: <https://3m.nt-rt.ru/>