

3M Building and Construction Market Center

HVAC Solutions

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3M

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Printed UL Tapes

3M™ Venture Tape™ Aluminum Foil Tape 1581A



Printed 2 mil heavy duty, high strength aluminum foil coated with a specially formulated pressure sensitive acrylic adhesive system. Superior adhesion and conformance for use with fiberglass ductboard systems. Performance and materials guaranteed to meet or exceed UL181A-P quality standards; also meets the requirements of UL181B-FX, flexduct standard. Listed 89FL.

Applications: Primarily used for sealing fiberglass ductboard and flexduct. May also be used on metal connections, flexible duct, flexible duct connections to ductboard, and metal duct.

Technical Data	Imperial	Metric
Thickness	4.0 mils	0.10 mm
Peel Adhesion	60 oz/in	16.7 N/25 mm
Shear Strength	>24 hrs @ 2.2 psi	>24 hrs @ 15.2 kPa
Tensile Strength	27 lb/in	122 N/25 mm
Elongation	10%	10%
Service Temperature	-40°F to 300°F	-40°C to 149°C
Roll Size	2½, 3 in x 60 yds	64, 72 mm x 55 m

3M™ Venture Tape™ Flexible Duct Closure Tape 1599B UL181B-FX



Printed 3 mil, UV resistant polypropylene film with a cold weather acrylic adhesive system. This adhesive performs well in either sub-zero cold or warm temperatures. Meets or exceeds all requirements of UL181B-FX related to closure systems for flexible air ducts and air connectors. 25/50 rated for Flame Spread and Smoke Development.

Applications: Primarily used for sealing flexible air ducts, air connectors, for securing flex ducts to duct wrap facings and for metal and metal to metal connections. Adheres well to rubberized foam pipe insulation.

Colors: Black, Silver

Technical Data	Imperial	Metric
Thickness	3.0 mils	0.08 mm
Peel Adhesion	30 oz/in	8.3 N/25 mm
Shear Strength	>24 hrs @ 2.2 psi	>24 hrs @ 15.2 kPa
Tensile Strength	20 lb/in	90 N/25 mm
Elongation	130%	130%
Service Temperature	-40°F to 185°F	-40°C to 85°C
Roll Size	2, 3 in x 120 yds	48, 72 mm x 110 m

3M™ Venture Tape™ Mastik Duct Sealing Tape 1580P UL181B-FX

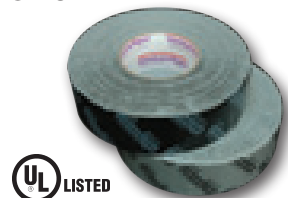


1580P is a printed, 2 mil annealed aluminum foil coated with a heavy mastik adhesive. 1580P meets UL181B-FX requirements, and excels in demanding temperature and humidity environments. Provides superior performance and durability. Hand tearable and conformable.

Applications: Indoor/outdoor, instant water resistant bond on sheet metal, flex duct and duct wrap vapor barriers.

Technical Data	Imperial	Metric
Thickness	17.0 mils	0.43 mm
Peel Adhesion	112 oz/in	31.2 N/25 mm
Shear Strength	>24 hrs @ 2.2 psi	>24 hrs @ 15.2 kPa
Tensile Strength	20 lb/in	89 N/25 mm
Elongation	5%	5%
Service Temperature	-20°F to 200°F	-29°C to 93°C
Roll Size	2, 3 in x 100 ft	48, 72 mm x 30.5 m

3M™ Venture Tape™ Cloth Duct Tape 1515 UL181B-FX



Printed 1515 is a high strength, premium quality UL181B-FX cloth tape coated with a high performance pressure sensitive adhesive system. Specifically designed to meet demanding HVAC requirements.

Applications: Sealing, closure, and repair of sheet metal ductwork and general purpose heavy duty service.

Colors: Black, Grey

Technical Data	Imperial	Metric
Thickness	14.0 mils	0.36 mm
Peel Adhesion	75 oz/in	20.8 N/25 mm
Shear Strength	>24 hrs @ 2.2 psi	>24 hrs @ 15.2 kPa
Tensile Strength	38 lb/in	171 N/25 mm
Elongation	21%	21%
Service Temperature	0°F to 180°F	32°C to 82°C
Roll Size	2 in x 60 yds	48 mm x 55 m

3M™ Venture Tape™ Line Set Tape 1507



A printed UV resistant polypropylene film with a solvent acrylic "CW" adhesive system. This adhesive performs well in either sub-zero cold or tropical temperatures. Designed to perform in direct sunlight, this product is UV resistant and UL Listed.

Applications: Primarily used for taping line sets. Works well on foam pipe insulation used in line sets. 1507 is waterproof, weatherproof and designed for outdoor use.

Colors: Black, Black Printed, White

Technical Data	Imperial	Metric
Thickness	3.0 mils	0.08 mm
Peel Adhesion	30 oz/in	8.3 N/25 mm
Shear Strength	>24 hrs @ 2.2 psi	>24 hrs @ 15.2 kPa
Tensile Strength	20 lb/in	90 N/25 mm
Elongation	130%	130%
Service Temperature	-40°F to 185°F	-40°C to 85°C
Roll Size	2, 3 in x 60 yds	48, 72 mm x 55 m

Aluminum Foil Tapes

3M™ Venture Tape™ Aluminum Foil Tape 3520CW



A 2 mil, high strength aluminum foil with an aggressive, high temperature acrylic adhesive system. Provides an excellent vapor seal on fibrous and sheet metal ducts. Malleable foil conforms well around corners and to irregular surfaces.

Special cold weather acrylic pressure sensitive adhesive system combines superior quick stick at normal temperatures with superior low temperature performance - the ultimate in cold weather tapes, excellent at normal and elevated temperatures.

Technical Data	Imperial	Metric
Thickness	3.5 mils	0.09 mm
Peel Adhesion	50 oz/in	13.9 N/25 mm
Shear Strength	>24 hrs @ 2.2 psi	>24 hrs @ 15.2 kPa
Tensile Strength	21 lb/in	95 N/25 mm
Elongation	4%	4%
Service Temperature	-40°F to 250°F	-40°C to 121°C
Roll Size	2, 2½, 3, 4 in x 50 yds	48, 64, 72, 99 mm x 46 m

3M™ Venture Tape™ FSK Insulation Tape 1525CW



Tri-directionally reinforced with a 2x3 fiberglass scrim, UL 723 listed foil/scrim/kraft lamination. This tape conforms well to both fibrous ductboard and blankets. Coated with a special cold weather, acrylic, pressure sensitive adhesive system, 1525CW combines superior quick stick at normal temperatures with superior low temperature performance.

Recommended for use down to -40°F (-40°C) as well as normal and very high temperatures. This is the ultimate in cold weather tapes.

Technical Data	Imperial	Metric
Thickness	9.5 mils	0.24 mm
Peel Adhesion	45 oz/in	12.5 N/25 mm
Shear Strength	>24 hrs @ 2.2 psi	>24 hrs @ 15.2 kPa
Tensile Strength	40 lb/in	181 N/25 mm
Elongation	2%	2%
Service Temperature	-40°F to 240°F	-40°C to 116°C
Roll Size	2, 3, 4, 5, 6 in x 50 yds	48, 72, 99, 127, 152 mm x 46 m

3M™ Venture Tape™ Aluminum Foil Tape 1520CW



A 1.75 mil, high strength aluminum foil coated with an aggressive, high temperature acrylic adhesive system. Provides an excellent vapor seal on both fibrous and sheet metal ducts. Malleable foil also conforms well around corners and to irregular surfaces.

Special cold weather acrylic pressure sensitive adhesive system combines superior quick stick at normal temperatures with superior low temperature performance excellent at elevated temperatures as well; UL 723 Listed.

Technical Data	Imperial	Metric
Thickness	3.3 mils	0.08 mm
Backing Thickness	1.8 mils	0.05 mm
Peel Adhesion	45 oz/in	12.5 N/25 mm
Shear Strength	>24 hrs @ 2.2 psi	>24 hrs @ 15.2 kPa
Tensile Strength	21 lb/in	95 N/25 mm
Elongation	4%	4%
Service Temperature	-40°F to 250°F	-40°C to 121°C
Roll Size	2, 2½, 3 in x 50 yds	48, 64, 72 mm x 46 m

3M™ Venture Tape™ Aluminum Foil High Temperature Tape 3243



A 2 mil dead soft aluminum foil coated with a high temperature, extremely aggressive solvent acrylic adhesive system. Specifically designed for high heat flue closure applications; applies easily to sheet metal ducts on flat and irregular surfaces and excels in demanding temperature applications.

Applications: Can be used in most flue pipe and chimney pipe applications in temperatures up to 425°F.

Technical Data	Imperial	Metric
Thickness	4.0 mils	0.10 mm
Peel Adhesion	45 oz/in	12.5 N/25 mm
Shear Strength	>24 hrs @ 2.2 psi	>24 hrs @ 15.2 kPa
Tensile Strength	25 lb/in	113 N/25 mm
Elongation	5%	5%
Service Temperature	-40°F to 425°F	-40°C to 218°C
Roll Size	3 in x 50 yds	72 mm x 46 m

Duct Tapes

3M™ Venture Tape™ Contractor Grade Waterproof Cloth Duct Tape 1500



A high strength, premium quality polyethylene coated cotton cloth tape coated with an aggressive, high tack, natural rubber pressure sensitive adhesive system. Adheres well to sheet metal duct and conforms well to corners and irregular surfaces. Will not curl when unwound.

Applications: Vapor sealing sheet metal ductwork and general purpose heavy duty service.

Colors: Black, Gray, White

Technical Data	Imperial	Metric
Thickness	10.0 mils	0.25 mm
Peel Adhesion	50 oz/in	13.9 N/25 mm
Shear Strength	>24 hrs @ 2.2 psi	>24 hrs @ 15.2 kPa
Tensile Strength	23 lb/in	104 N/25 mm
Elongation	18%	18%
Service Temperature	0°F to 200°F	-18°C to 93°C
Roll Size	2 in x 60 yds	48 mm x 55 m

3M™ Venture Tape™ Silver Metallized Cloth Duct Tape 1502



A high quality metallized polyethylene cloth tape coated with a natural rubber pressure sensitive adhesive system. This tape has high tack, high peel and adheres well to fiber ductboard, flexible duct, and sheet metal duct. Conforms well to corners and irregular surfaces.

Applications: Used for vapor sealing of flexible duct, sheet metal ductwork and general industrial purposes.

Color: Silver Metallic

Technical Data	Imperial	Metric
Thickness	11.0 mils	0.28 mm
Peel Adhesion	55 oz/in	15.6 N/25 mm
Shear Strength	>24 hrs @ 2.2 psi	>24 hrs @ 15.2 kPa
Tensile Strength	23 lb/in	104 N/25 mm
Elongation	10%	10%
Service Temperature	0°F to 200°F	-18°C to 93°C
Roll Size	2, 3 in x 60 yds	48.72 mm x 55 m

3M™ Venture Tape™ Professional Grade Cloth Duct Tape 1556



A high strength, premium quality, polyethylene coated cotton cloth tape with an aggressive, high tack, natural rubber, pressure sensitive adhesive system. Adheres well to sheet metal duct and conforms well to corners and irregular surfaces.

Applications: Vapor sealing sheet metal ductwork and general purpose heavy duty service.

Colors: Black, Gray

Technical Data	Imperial	Metric
Thickness	12.0 mils	0.30 mm
Peel Adhesion	70 oz/in	19.5 N/25 mm
Shear Strength	>24 hrs @ 2.2 psi	>24 hrs @ 15.2 kPa
Tensile Strength	25 lb/in	113 N/25 mm
Elongation	15%	15%
Service Temperature	0°F to 200°F	-18°C to 93°C
Roll Size	2 in x 60 yds	48 mm x 55 m

3M™ Venture Tape™ Premium Grade Cloth Duct Tape 1557



A high strength, premium quality polyethylene coated cloth tape with an aggressive, high tack, natural rubber, pressure sensitive adhesive system. Adheres well to sheet metal duct and conforms well to corners and irregular surfaces. Tears straight and will not curl when unwound.

Applications: Vapor sealing sheet metal ductwork and general purpose heavy duty service.

Colors: Black, Gray

Technical Data	Imperial	Metric
Thickness	13.0 mils	0.33 mm
Peel Adhesion	50 oz/in	13.9 N/25 mm
Shear Strength	>24 hrs @ 2.2 psi	>24 hrs @ 15.2 kPa
Tensile Strength	29 lb/in	131 N/25 mm
Elongation	18%	18%
Service Temperature	0°F to 200°F	-18°C to 93°C
Roll Size	2 in x 60 yds	48 mm x 55 m

3M™ Multi-Purpose Duct Tape 3900



A general purpose, conformable cloth duct tape made with polyethylene film over cloth scrim and rubber adhesive. A good choice for general maintenance, wrapping, sealing, protecting and color coding.

Technical Data	Imperial	Metric
Thickness	8.1 mils	0.21 mm
Adhesion to Steel	72 oz/in. width	79 N/100 mm width
Tensile Strength	32 lb/in. width	560 N/100 mm width
Elongation	24%	24%
Temperature Use Range	Up to 200° F	Up to 93° C
Standard Roll Length	60 yds	54.8 m

Duct Tapes (cont.)

3M™ Contractor Grade Multi-Use Duct Tape 2979



A waterproof polyethylene film over cloth scrim backing with a rubber adhesive used for a variety of duct tape applications. Individually wrapped, silver.

Technical Data	Imperial	Metric
Thickness	7.0 mils	0.18 mm
Holding Strength	Medium/High	Medium/High
Temperature Range	Up to 200°F	Up to 93.3°C

3M™ Contractor Grade Pro Strength Duct Tape 3979



Composed of a waterproof polyethylene film over cloth scrim backing with a rubber adhesive used for demanding duct tape applications. Individually wrapped, silver.

Technical Data	Imperial	Metric
Thickness	8.0 mils	0.20 mm
Holding Strength	High	High
Temperature Range	Up to 200°F	Up to 93.3°C

Spray Adhesives and Accessories

3M™ Venture Grip Solvent Based Spray Adhesive 100



Industrial strength contact adhesive. Versatile and cost effective; bonds to a wide range of natural and synthetic materials. Designed for either temporary or permanent bonding; applies quickly and easily at temperatures as low as 30°F (-1°C).

Size: 40 lb. canister

Technical Data	Typical Value	Test Method
Base Material	Synthetic Polymer	
Solvent	Methylene Chloride	
Specific Gravity	1.19 - 1.21	
Flammability	Flammable	Industry Flame Projection Test
Open Time	10 - 15 minutes	
Dry Time	2 - 4 minutes	
Temperature Resistance	150°F (66°C)	

3M™ Venture Grip LoVOC Spray Adhesive 200



Low volatile organic compound (LoVOC) adhesive designed for HVAC applications. Applies quickly and easily, water resistant and temperature resistant to 150°F (66°C).

CONTAINS NO METHYLENE CHLORIDE.

Size: 40 lb. canister

Technical Data	Typical Value	Test Method
Base Material	Synthetic Polymer	
Solvent	Methyl Acetate	
Specific Gravity	0.93 - 0.97	
Flammability	Flammable	Industry Flame Projection Test
Open Time	10 - 20 minutes	
Dry Time	2 - 5 minutes	
Temperature Resistance	150°F (66°C)	

3M™ Venture Grip Water Based Spray Adhesive 300



LEED compliant, GreenGuard certified water based contact adhesives designed for a wide range of applications. Bonds to insulation, foam, fiberglass, metal, cork, fabrics, glass, and plastics as well as other natural and synthetic materials.

Non-flammable and contains no Hazardous Air Pollutants (HAPs) or Volatile Organic Compounds (VOCs).

Size: 40 lb. canister

Technical Data	Typical Value	Test Method
Base Material	Acrylic Polymer	
Solvent	None	
Specific Gravity	0.98 - 1.02	
Flammability	Non-Flammable	Industry Flame Projection Test
Open Time	15 - 30 minutes	
Dry Time	5 - 7 minutes	
Temperature Resistance	130°F (54°C)	

3M™ Venture Grip Non-Flammable Spray Adhesive 400



Non-flammable, industrial contact adhesive. Bonds to veneers, fabrics, upholstery, foam, headliners, glass, cork, tile, fiberglass, plastics, and insulation materials as well as other natural and synthetic surfaces.

Contains no Hazardous Air Pollutants (HAPs) or Volatile Organic Compounds (VOCs).

Size: 40 lb. canister

Technical Data	Typical Value	Test Method
Base Material	Synthetic Polymer	
Solvent	Methylene Chloride	
Specific Gravity	1.15 - 1.19	
Flammability	Non-Flammable	ASTM E 681-04
Open Time	15 - 30 minutes	
Dry Time	5 - 7 minutes	
Temperature Resistance	200°F (93°C)	

Spray Adhesives and Accessories (cont.)



3M™ Venture Grip General Purpose Spray Adhesive 500

General purpose, water resistant spray adhesives for a wide range of applications. Bonds to insulation, foam, fiberglass, metal, cork, fabrics, glass, and plastics as well as other natural and synthetic materials.

Contains no chlorinated solvents, Ozone Depleting Substances (ODS), or Volatile Organic Compounds (VOCs)

Size: 40 lb. canister

Technical Data	Typical Value	Test Method
Base Material	Synthetic Polymer	
Solvent	Hydrocarbon	
Specific Gravity	0.68 - 0.72	
Flammability	Flammable	ASTM E-681-04
Open Time	15 - 30 minutes	
Dry Time	5 - 7 minutes	
Temperature Resistance	130°F (54°C)	

Accessories



3M™ Scotch-Weld™ Cylinder Adhesive Applicator

Standard Output for use with any 3M™ Cylinder Spray adhesive products. Includes Cylinder Adhesive 9501 Spray Tip.



3M™ Scotch-Weld™ Cylinder Adhesive Spray Tip QSS

A unique, high output wide width spray pattern tip designed specifically for use with 3M™ HoldFast 70 and 3M™ Scotch-Weld™ Polystyrene Foam Insulation 78 HT Cylinder Spray Adhesives.



3M™ Scotch-Weld™ Cylinder Adhesive Spray Tip 9501

A standard output, wide spray width tip.



3M™ Scotch-Weld™ Cylinder Adhesive Hoses

For use with any 3M™ Cylinder Spray adhesive products.

Sealants and Aerosols

3M™ Silicone Adhesive 301



100% silicone, high performance sealant. Easy to apply and fast curing, provides excellent long term UV and weather resistance for a durable and reliable bond.

Provides a permanently elastic bond to materials with dissimilar coefficients of expansion. Bonds well to most building and construction materials.

Colors: Aluminum, Clear, and White

3M™ Scotch-Seal™ Metal Sealant 2084



A one-part aluminum colored, general purpose, medium viscosity sealant.

3M™ Super 77™ Multipurpose Spray Adhesive



High tack, high coverage and fast drying adhesive. Bonds quickly in seconds. For permanently attaching foils, carpeting, lightweight foams, and paper.

3M™ 5-Way Penetrant



A multi-purpose product that is effective for displacing moisture and dries out electrical apparatus.

3M™ Multi-Purpose Spray Adhesive 27



A versatile, economical, industrial grade, mist spray aerosol adhesive. Ideal for bonding paper, cardboard, fabrics, soft foams, and many other lightweight materials.

Specialty Tapes

3M™ Venture Tape™ Walk-In Cooler Repair Tape 1577CW-E, -WME



A zero permeability, embossed multi-ply self adhesive material that installs quickly and easily with no special tools. Made with Venture Tape's signature cold weather, mold resistant acrylic adhesive, this product works well in both walk-in freezers and coolers.

Available in embossed natural aluminum (1577CW-E) and embossed white (1577CW-WME).

Applications: Easy and effective solution to air leakage in freezers and coolers.

Technical Data	Imperial	Metric
Thickness	19.5 mils	0.50 mm
Peel Adhesion	65 oz/in	18.0 N/25 mm
Shear Strength	>72 hrs @ 2.2 psi	>72 hrs @ 15.2 kPa
Tensile Strength	70 lb/in	316 N/25 mm
Elongation	85%	85%
WVTR	0.00 perm	0.00 perm
Service Temperature	-40°F to 300°F	-40°C to 149°C
Roll Size	4 in x 15 yds	99 mm x 13 m

3M™ Venture Tape™ Refrigeration Line Set Tape 1507



A 1.5 mil white polypropylene film with an acrylic adhesive system. This adhesive performs well in sub-zero cold.

Applications: Primarily used for line sets in refrigeration applications; also for sealing flexible air ducts and air connectors.

Colors: Black, White

Technical Data	Imperial	Metric
Thickness	3.0 mils	0.08 mm
Peel Adhesion	30 oz/in	8.3 N/25 mm
Shear Strength	>24 hrs @ 2.2 psi	>24 hrs @ 15.2 kPa
Tensile Strength	20 lb/in	90 N/25 mm
Elongation	130%	130%
Service Temperature	-40°F to 185°F	-40°C to 85°C
Roll Size	2 in x 60 yds	48 mm x 55 m

3M™ Venture Tape™ Condensate Pan Repair Tape 1577CW



A zero permeability, multi-ply laminate, coated with a special cold weather acrylic pressure sensitive adhesive system. Excellent quick stick at normal temperatures with superior low temperature performance below freezing, this specialty laminate makes it highly puncture and tear resistant as well as flame retardant.

Applications: Lining and repairing HVAC unit condensate pans; interior and exterior use.

Technical Data	Imperial	Metric
Thickness	7.0 mils	0.18 mm
Peel Adhesion	65 oz/in	18.0 N/25 mm
Shear Strength	>72 hrs @ 2.2 psi	>72 hrs @ 15.2 kPa
Tensile Strength	70 lb/in	316 N/25 mm
Elongation	85%	85%
WVTR	0.00 perm	0.00 perm
Service Temperature	-40°F to 300°F	-40°C to 149°C
Roll Size	23 in x 50 yds	584 mm x 46 m

3M™ Venture Tape™ Silver Bubble Film Tape 1507



A 1.5 mil silver polypropylene film with an acrylic adhesive system. Performs well in either sub-zero cold or tropical temperatures. UV Resistant.

Applications: Primarily used for sealing flexible air duct and air connectors, and particularly on Bubble/Film Insulation seams.

Color: Silver

Technical Data	Imperial	Metric
Thickness	3.0 mils	0.08 mm
Peel Adhesion	30 oz/in	8.3 N/25 mm
Shear Strength	>24 hrs @ 2.2 psi	>24 hrs @ 15.2 kPa
Tensile Strength	20 lb/in	90 N/25 mm
Elongation	130%	130%
Service Temperature	-40°F to 185°F	-40°C to 85°C
Roll Size	2, 3 in x 60 yds	48, 72 mm x 55 m

Specialty Tapes (cont.)

3M™ Venture Tape™ ASJ Facing Tape 1540CW



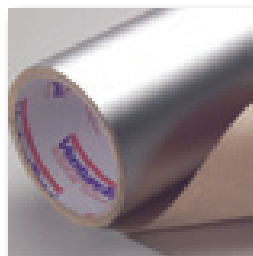
A white kraft/scrim/foil (ASJ) laminate with specifically designed for use as a vapor seal on ASJ faced ductboard and pipe insulation; applies easily and excels in demanding temperature and humidity conditions.

Facing meets ASTM1136, Type, I, II, III, IV; UL 723 Listed.

Applications: Primarily used as a closure system and vapor seal on all service jacket (ASJ) faced duct and piping systems.

Technical Data	Imperial	Metric
Thickness	10.8 mils	0.27 mm
Peel Adhesion	45 oz/in	12.5 N/25 mm
Shear Strength	>24 hrs @ 2.2 psi	>24 hrs @ 15.2 kPa
Tensile Strength	55 lb/in	249 N/25 mm
Elongation	6%	6%
Service Temperature	-40°F to 240°F	-40°C to 116°C
Roll Size	2, 3, 4, 5 in x 50 yds	48, 72, 99, 127 mm x 46 m

3M™ VentureClad™ Insulation Facing Tape 1577CW

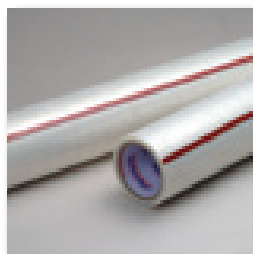


A zero permeability, multi-ply laminate, coated with a special cold weather acrylic pressure sensitive adhesive system. Excellent quick stick at normal temperatures with superior low temperature performance below freezing, this specialty laminate makes it highly puncture and tear resistant as well as flame retardant.

Applications: Facing system and vapor seal on foam glass, mineral fiber, nitrile rubber, and foam insulation. Interior and exterior use.

Technical Data	Imperial	Metric
Thickness	7.0 mils	0.18 mm
Peel Adhesion	65 oz/in	18.0 N/25 mm
Shear Strength	>72 hrs @ 2.2 psi	>72 hrs @ 15.2 kPa
Tensile Strength	70 lb/in	316 N/25 mm
Elongation	85%	85%
WVTR	0.00 perm	0.00 perm
Service Temperature	-40°F to 300°F	-40°C to 149°C
Roll Size	23, 35½, 46 in x 50 yds	584, 902, 1168 mm x 46 m

3M™ Venture Tape™ Duct Protection Wrap 1512



A self-wound duct protection wrap, made from a co-extruded, multi-polymer material, with a high-tack adhesive system. Conformable, tough and puncture resistant; provides protection for a wide variety of surfaces.

Applications: Primarily used as a duct protection film to keep the INSIDE of ducts clean. Reduces accumulation of dirt, dust, moisture, insects and other contaminants.

Colors: Blue, Clear

Technical Data	Imperial	Metric
Thickness	2.0 mils	0.05 mm
Peel Adhesion	15 oz/in	4.2 N/25 mm
Shear Strength	>72 hrs @ 2.2 psi	>72 hrs @ 15.2 kPa
Tensile Strength	9 lb/in	41 N/25 mm
Elongation	600%	600%
Service Temperature	32°F to 160°F	0°C to 71°C
Roll Size	24, 36 in x 200 ft	610, 914 mm x 61 m

Note: Clear also available in 48 in / 1219mm width

3M™ Venture Tape™ Pipe Wrap 921



A 5 mil thick, strong and conformable polypropylene film tape coated with a very high shear, UV resistant acrylic adhesive system. Excellent holding properties and cold stick. Superior resistance to moisture, alkalis, oils, weathering and abrasion.

Applications: Primarily used for protecting metal and PVC pipe from corrosion in underground and outdoor applications.

Color: Clear

Technical Data	Imperial	Metric
Thickness	5.8 mils	0.15 mm
Peel Adhesion	30 oz/in	8.3 N/25 mm
Shear Strength	>24 hrs @ 2.2 psi	>24 hrs @ 15.2 kPa
Tensile Strength	13 lb/in	58 N/25 mm
Elongation	450%	450%
Service Temperature	-30°F to 175°F	-34°C to 79°C
Roll Size	2 in x 36 yds	48 mm x 33 m

Specialty Tapes (cont.)

ScotchBlue™ Painters Masking Tape for Multi-Surfaces 2090



This tape removes cleanly without adhesive transfer or surface damage for up to 14 days, even in direct sunlight. It is a medium adhesion tape that is ideal for painted walls and trim, woodwork, glass and metal.

Technical Data	Imperial	Metric
Thickness	5.4 mils	0.14 mm
Adhesion to Steel	23 oz/in. width	25 N/100 mm width
Tensile Strength	27 lb/in. width	473 N/100 mm width
Standard Roll Length	60 yds	54.8 m

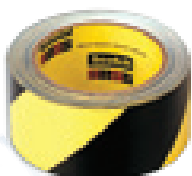
3M™ Value Masking Tape 101+



A cost effective masking tape for indoor light-duty applications.

Technical Data	Imperial	Metric
Thickness	5.1 mils	0.13 mm
Adhesion to Steel	34 oz/in. width	37 N/100 mm width
Tensile Strength	22 lb/in. width	385 N/100 mm width
Elongation	9%	9%
Temperature Use Range	Up to 150° F/30 min.	Up to 66° C/30 min.
Standard Roll Length	60 yds	54.8 m

3M™ Safety Stripe Tape 5702 Black/Yellow



Has a vinyl backing with rubber adhesive, resists most common solvents. For use when hazard marking or lane marking.

Technical Data	Imperial	Metric
Thickness	5.4 mils	0.14 mm
Adhesion to Steel	19 oz/in. width	21 N/100 mm width
Tensile Strength	15 lb/in. width	260 N/100 mm width
Elongation	170%	170%
Temperature Use Range	40° to 170°F	4° C to 77° C
Standard Roll Length	36 yds	33 m

Fire Barrier

3M™ Fire Barrier Sealant CP 25WB+



High-performance latex-based intumescent firestop sealant. When properly installed, this product provides up to 4-hour fire protection in tested and listed systems. Firestops items penetrating through fire-rated construction assemblies. Dries to red color, no mixing required.

3M™ Fire Block Sealant FB136



Ideal for use in residential (single, two-family and combustible) construction in areas that require sealing to maintain the integrity of a fireblock. Adheres to virtually any material, including wood, masonry, metal and plastic.

3M™ Fire Block Foam FB-Foam



Foam-in-place fireblock and draftstop for non-rated residential and commercial construction. Meets ASTM E 84 (mod) Class 1 for smoke spread and flame development and has been evaluated by the International Code Council Evaluation Service (ICC-ES) and complies with the International Building Code (IBC) and International Residential Code (IRC) per ICC-ES report ESR-3165.

3M™ Smoke and Sound Sealant SS 100



A high-performance flexible latex sealant designed to minimize sound transfer and prevent the spread of smoke. Designed to seal construction joints and through penetrations in non-fire-rated wall and floor assemblies. Comes in cartridge, sausage pack and 4.5 gallon pail sizes.

3M™ Fire Barrier Duct Wrap 615+



Certified shaft alternative 1- and 2-hour fire-rated duct wrap. Certified for grease ducts to ASTM E 2336 (including ASTM E119 engulfment) in 2-layer systems. Certified for ventilation ducts to ISO 6944 in 1-layer systems and for other key life safety duct applications.

3M™ Fire Barrier Sealant IC 15WB+



Economical, general-purpose latex-based intumescent firestop sealant.

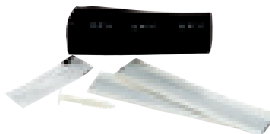
Electrical Products

Scotch® Super 33+™ Vinyl Electrical Tape



A premium grade vinyl electrical insulating tape, its aggressive adhesive and elastic backing ensure easy, water-resistant conformation to irregular surfaces in low temperatures, yet will not ooze or melt in high temperatures.

3M™ Motor Lead Splicing Kits - 5300 Series



A series of kits designed for splicing motor lead cables to incoming feeder cables, no torches or head source required, no special tools required to install splice, thick walls to resist puncture and abrasion damage, high dielectric constant stress control included with 5/8 kV kits for shielded feeder cables, for minimizing size and electrical stress.

3M™ ScotchCode™ Wire Marker Tape Dispenser



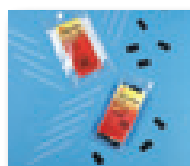
Dispenser is filled with 10 rolls of numbered tape (one each of 0-9).

3M™ Heat Shrink Tubing



A variety of heat shrink tubing available to fit various needs, from single-wall polyolefin used in flame retardant insulation for UL, CSA and MIL - DTL-23053/5 applications to heavy duty that is a long term environmental protection, highly chemical, abrasion and split resistant.

3M™ Cable Ties and Bases



Made in the USA of high quality 6/6 nylon (the 3M™ Cable Tie 48" is not made in the USA), available in three colors and are UL tested and suitable for use in air handling spaces in accordance with Section 300.00 © and (D) of the National Electrical Code.

3M™ Temflex™ Corrosion Protection Tape 1100



Printed with product name and thickness, this 10 mil, general purpose, corrosion resistant tape has good abrasion resistance. UV resistant and temperature rated to 170°F (80°C).

Personal Safety

Respirators, Filters & Cartridges

3M™ Particulate Respirator 8210, N95



This classic disposable N95 particulate respirator is designed to help provide comfortable, reliable worker respiratory protection against certain non-oil based particles.

3M™ Particulate Respirator 8511, N95



This disposable N95 particulate respirator features the proprietary 3M™ Cool Flow™ Valve and helps provide comfortable, reliable worker respiratory protection. It is ideally suited for hot/dusty work settings that require long periods of wear.

3M™ Full Facepiece Reusable respirator 6000 Series



Full facepiece reusable respirator offers lightweight comfort and ease of use. Combine with appropriate 3M™ Particulate Filters or Cartridges to help provide respiratory protection against particulates and/or a variety of gases and vapors.

3M™ Half Facepiece Reusable Respirator 6000 Series



Facepiece made from soft, lightweight material, available with a standard or drop-down head harness option. Drop-down mogel allows wearer to lower the respirator without removing hard hat or faceshield.

3M™ Organic Vapor Cartridge 6001



NIOSH approved against certain organic vapors. Use with 3M™ Half and Full Facepieces 6000, 7000 and FF-400 Series with bayonet filter holders.

3M™ Particulate Filter 2091



NIOSH approved for environments containing certain oil and non-oil based particles.

3M™ Particulate Filter 2097



NIOSH approved for environments containing certain oil and non-oil based particles. 3M recommended for nuisance level organic vapor relief and for ozone protection up to 10X OSHA PEL.

Continued on back

Personal Safety (cont.)

Eye, Ear, and Head Protection

3M™ SecureFit™ Protective Eyewear



Stylish, lightweight design weighs less than 1oz. Features proprietary 3M™ Pressure Diffusion Temple Technology that allows temples to naturally adjust to individual head sizes, anti-scratch coating and the Polycarbonate lenses absorb 99.9% UVA and UVB up to 380 nm and meet requirements of CSA Z94.3 and ANSI Z87.1-2010.

3M™ Light Vision™ Protective Eyewear



Photochromic lens lightens and darkens with outdoor light conditions, anti-fog lens, soft, adjustable nose bridge, lenses absorb 99.9% UVA and UVB.

3M™ Earmuff X3A



The X3 features a newly designed spacer to improve attenuation without excess bulk or weight. They are lightweight and compact compared with other high attenuation earmuffs and new ear cushion foam technology for an effective acoustic seal and reliable protection.

3M™ E-A-R™ Classic™ Uncorded Earplugs 310-1001



Constructed from slow-recovery foam, the disposable earplug comes in a clean, convenient pillow pack.

3M™ H-700 Series Hard Hats



Offers extended comfort and protection, and also features a sensor that changes color as the hard hat is exposed to UV light. This sensor lets the wearer know when it is time to replace the hard hat due to UV rays causing the shell to become brittle.

3M™ Protective Coveralls



Breathable material to help reduce heat build-up and promote comfortable wear, while helping to protect against certain dusts and light liquid splashes, knit cuffs, elasticized waist and ankles for increased comfort and freedom of movement.

Abrasive Products

Scotch-Brite™ General Purpose Hand Pad 7447



Most universally used in a variety of applications. Excellent starting point to clean, finish, grain, denib and defuzz. May be used by hand, with a hand pad block or on an in-line sander. Abrasive mineral; very fine grade aluminum oxide.

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