



Micro-Fiber Cloths

- A micro-fiber is a single fiber with a thickness less than a human hair that has been split 16 times and woven into various products.
- The surface area of a micro-fiber product is increased over 15 times, creating millions of spaces between the fibers which trap dirt, grime or liquids, making this product one of the most absorbent materials.
- Use these micro-fiber cloths dry for general cleaning.
- To remove spills, stains or grime, lightly dampen the cloth for best results.
- All micro-fiber cloths can be used with or without chemicals.
- Micro-fiber cloths can be washed up to 300+ times without losing cleaning and trapping abilities.
- Clean often for best results.
- They save you labor, time, and additional costs of multiple cleaning products and chemicals.

| DESCRIPTION | COLOR | STD. PKG. | PART NO. |
|--|--------|-----------|-------------|
| MICRO-FIBER CLEANING CLOTH (BLUE) | | | |
| Used for general-purpose wet or dry applications. Works best when sprayed with a light water mist to deep clean. | | | |
| 16" x 16" Cleaning Cloth | Blue | 20 | 07660705300 |
| MICRO-FIBER DRY TACK CLOTH (RED) | | | |
| This woven terry cloth has a low profile to resist snagging and help pick up embedded debris. It is used in dry tack applications. | | | |
| 16" x 16" Dry Tack Cloth | Red | 20 | 07660704025 |
| MICRO-FIBER POLISHING CLOTH (YELLOW) | | | |
| Streak-free cleaning of mirrors, optical lens and highly-polished items. | | | |
| 16" x 16" Polishing Cloth | Yellow | 20 | 07660705301 |



Black Lambswool Polishing Pads

- Designed to repair clearcoat finishes, these pads are 100% natural lambswool which has the densest pile of any material.
- They are well-balanced and more durable than conventional pads.
- Fibers can be compressed and still recover their natural shape.
- Because of the denser pile surface, these pads distribute and apply material evenly and consistently.
- Available in 3" – 5" diameters with a 3/4" nap to attach to a hook and loop back-up pad.

| DESCRIPTION | STD. PKG. | PART NO. |
|---------------------------------------|-----------|-------------|
| BLACK LAMBSWOOL POLISHING PADS | | |
| 3" Pad with Loop – 3/4" nap | 500 | 63642503670 |
| 4" Pad with Loop – 3/4" nap | 250 | 63642503671 |



Norton Professional High Heat Tape

Designed for maximum performance and clean release on multiple surfaces. These high quality masking tapes are ideal for conditions that include exposure to the high heat curing temperatures found in automobile, truck, bus and other transportation assembly operations, as well as aerospace manufacturing applications where a conformable, clean release masking tape is required. Available in bulk, accordion-wrapped for protection and work site stocking.

| <i>PART #</i> | <i>SIZE</i> | <i>STD. PKG.</i> |
|---|-------------------|------------------|
| NORTON PROFESSIONAL HIGH HEAT TAPE | | |
| 07660721948 | 3/4" x 60 yards | 48 |
| 07660721949 | 1" x 60 yards | 36 |
| 07660721950 | 1-1/2" x 60 yards | 24 |
| 07660721951 | 2" x 60 yards | 24 |

PACKED IN SLEEVES, WITH 4 SLEEVES TO A CASE



Norton Contractor Grade Tape

A general-purpose masking tape that offers both economy and versatility for a variety of materials and applications. Norton Contractor Grade masking tape provides a clean release up to 3 days. Use for general paint masking, hanging protective plastic, holding drop cloths in place and other general-purpose masking, bundling, and sealing jobs where the tape will be removed when the job is complete. Not intended for critical paint applications. Limit exposure to UV light for extended periods. Extended exposure to UV light could result in difficult removal from the surface.

| <i>PART #</i> | <i>SIZE</i> | <i>STD. PKG.</i> |
|-------------------------------------|-------------------|------------------|
| NORTON CONTRACTOR GRADE TAPE | | |
| 07660721944 | 3/4" x 60 yards | 48 |
| 07660721945 | 1" x 60 yards | 36 |
| 07660721946 | 1-1/2" x 60 yards | 24 |
| 07660721947 | 2" x 60 yards | 24 |

BULK PACKED AS INDIVIDUAL ROLLS



Norton Blue Core Tape

Our premium paint masking tape has a specially formulated adhesive system that provides optimum low- to medium-tack adhesion and clean removal from a variety of surfaces, for up to 14 days. Norton Blue Core masking tape can be used indoors or out. The crepe paper backing is designed to enable easy unrolling and to minimize slivering. It delivers very sharp, clean edges on smooth- to moderately-textured surfaces.

| <i>PART #</i> | <i>SIZE</i> | <i>STD. PKG.</i> |
|------------------------------|-------------------|------------------|
| NORTON BLUE CORE TAPE | | |
| 07660721952 | 3/4" x 60 yards | 48 |
| 07660721953 | 1" x 60 yards | 36 |
| 07660721954 | 1-1/2" x 60 yards | 24 |
| 07660721955 | 2" x 60 yards | 24 |

BULK PACKED AS INDIVIDUAL ROLLS

Coated Abrasive Grit Comparison Chart

| AVERAGE PARTICLE SIZE IN MICRONS | GRADING SYSTEMS (OTHER THAN EMERY) | | | EMERY PRODUCTS |
|----------------------------------|------------------------------------|-------|------|----------------|
| | CAMI | FEPA | JIS | |
| 5.0 | - | - | - | - |
| 6.0 | - | - | 3000 | - |
| 6.5 | 1200 | - | 2500 | 4/0 |
| 8.4 | - | P2500 | - | - |
| 8.5 | - | - | 2000 | - |
| 9.2 | 1000 | - | - | 3/0 |
| 10.3 | - | P2000 | - | - |
| 10.5 | - | - | 1500 | - |
| 12.2 | 800 | - | 1200 | - |
| 12.6 | - | P1500 | - | - |
| 15.0 | - | - | - | - |
| 15.3 | - | P1200 | 1000 | - |
| 16.0 | 600 | - | - | 2/0 |
| 18.3 | - | P1000 | 800 | - |
| 19.7 | 500 | - | - | 0 |
| 20.0 | - | - | - | - |
| 21.8 | - | P800 | - | - |
| 23.6 | 400 | - | 600 | - |
| 25.0 | - | - | - | - |
| 25.75 | - | P600 | - | - |
| 28.8 | 360 | - | 500 | - |
| 30.0 | - | P500 | - | - |
| 35.0 | - | P400 | 400 | - |
| 36.0 | 320 | - | - | - |
| 40.0 | - | - | 360 | - |
| 40.5 | - | P360 | - | - |
| 44.0 | 280 | - | - | 1 |
| 45.0 | - | - | - | - |
| 46.2 | - | P320 | 320 | - |
| 50.0 | - | - | - | - |
| 52.5 | - | P280 | 280 | - |
| 53.5 | 240 | - | - | - |
| 55.0 | - | - | - | - |
| 58.5 | - | P240 | - | - |
| 60.0 | - | - | 240 | - |
| 64.0 | - | - | - | 2 |
| 65.0 | - | P220 | 220 | - |
| 66.0 | 220 | - | - | - |
| 78.0 | 180 | P180 | 180 | - |
| 79.0 | - | - | - | 3 |
| 93.0 | 150 | - | 150 | - |
| 95.0 | - | - | - | FINE |
| 97.0 | - | P150 | - | - |
| 116.0 | 120 | - | 120 | - |
| 127.0 | - | P120 | 100 | - |
| 136.0 | - | - | - | MEDIUM |
| 141.0 | 100 | - | - | - |
| 156.0 | - | P100 | - | - |
| 189.0 | - | - | - | COARSE |
| 192.0 | 80 | - | 80 | - |
| 197.0 | - | P80 | - | - |
| 260.0 | - | P60 | - | - |
| 268.0 | 60 | - | 60 | - |
| 326.0 | - | P50 | 50 | - |
| 341.0 | - | - | - | EX. COARSE |
| 351.0 | 50 | - | - | - |
| 412.0 | - | P40 | 40 | - |
| 428.0 | 40 | - | - | - |
| 524.0 | - | P36 | - | - |
| 535.0 | 36 | - | 36 | - |
| 622.0 | - | P30 | - | - |
| 638.0 | 30 | - | 30 | - |
| 715.0 | 24 | - | - | - |
| 740.0 | - | P24 | 24 | - |
| 905.0 | 20 | - | - | - |
| 984.0 | - | P20 | 20 | - |
| 1320.0 | 16 | - | 16 | - |
| 1324.0 | - | P16 | - | - |
| 1764.0 | - | P12 | - | - |
| 1842.0 | 12 | - | - | - |

Backing Types

Backings are the base for the abrasive minerals and, combined with the adhesive bond, support and anchor the abrasive mineral. The backings used in the manufacture of coated abrasives are:

Paper

Due to the fine surface of paper, a consistent finish is produced. Paper weights include *A, B, C, D, E* and *F* weights with *A* being the lightest and most flexible and *F* being the heaviest and least flexible. *A, B, C* and *D* weight papers are used for hand sanding and light mechanical operations in the form of sheets, PSA (pressure sensitive adhesive) and hook and loop discs and sheet rolls. *E* and *F* weight papers are primarily used for more aggressive mechanical operations in the form of belts and discs.

Cloth

Cloth backings used for coated abrasives are identified by weight. Cloth backings are filled or "finished" with a variety of materials (glues or resins) to create various backing characteristics, most notably flexibility. Several cloth types are used: cotton, polyester, polyester/nylon and polyester/cotton blends, and rayon.

There are three basic weights of cloth: J-weight or "jeans" is the lightest and most flexible. X-weight or "drills" is a heavier cloth that ranges in flexibility, strength and durability and is used on the broadest range of applications. Y-weight is a heavyweight drills cloth used on heavy-duty, high stock removal operations.

Fiber

Vulcanized fiber (cotton fibers which are chemically treated and then pressed under temperature and pressure to form a very durable backing) is used exclusively as the backing for resin fiber discs.

Film

Polyester film backing comes in 3 mil. and 5 mil. thicknesses, which have high strength and surface smoothness. They are used primarily in disc and roll applications requiring consistent surface finish.

Bond Types

An adhesive bond system is required to secure the abrasive mineral to the backing. All coated abrasive products are made with a two stage bonding process, the *make coat* and the *size coat*.

The *make coat* is the first layer of bond applied to the backing. The *make coat* provides the adhesive base between the abrasive mineral and the backing.

The *size coat* is the second coat, which is applied over the abrasive mineral and *make coat* to anchor the abrasive mineral and provide the desired physical strength of the finished product.

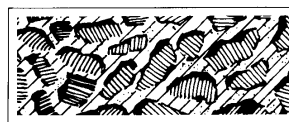
Glue, urea resin, and phenolic resin are the three basic bonding agents most commonly used. There are many size coat and make coat combinations, such as *glue over glue, urea over glue, and resin over resin*. *Glue over glue* is the most flexible bond while *resin over resin bond* is moisture-resistant, harder, less flexible, heat-resistant and has superior grain retention.

Coating Types

There are two types of abrasive coatings used in the manufacturing of coated abrasives: *open coat* and *closed coat*.

Open Coat

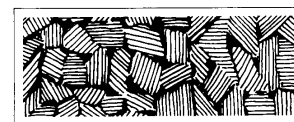
With an open coat, 50% to 75% of the surface is covered by abrasive grain. There are evenly spaced voids between the particles of grain, helping reduce the effect of loading caused by wood dust or metal particles.



OPEN COAT
(1/3 LESS GRAIN THAN CLOSED)

Closed Coat

With a closed coat, the entire surface is covered with abrasive grain, with no voids between the particles. This is the most typical coating, permitting the greatest degree of stock removal and longest product life.



CLOSED COAT

How to Read an Abrasive Product Specification

| Conventional Grinding Wheels | | | | | | | | | | | | |
|------------------------------|------------------------|-----------------|------------------|--------|--------|------|------|-----------|-----------|------------------------|--|---|
| 32A 46 I 8 V BE | | | | | | | | | | | | |
| ABRASIVE | | GRIT SIZE | | | GRADE | | | STRUCTURE | BOND TYPE | NORTON SYMBOL | | |
| ALUMINUM OXIDE | CERAMIC ALUMINUM OXIDE | SILICON CARBIDE | ZIRCONIA ALUMINA | COARSE | MEDIUM | FINE | SOFT | MEDIUM | HARD | RELATIVE GRAIN SPACING | Resin = B Shellac = E Plastic = P Rubber = R Vitrified = V | Designates a variation or modification to bond. |
| 23A | | 37C | 4NZ | 12 | 30 | 80 | D | I | Q | DENSE | | |
| 25A | 3SGP | 39C | 4ZF | 14 | 36 | 90 | E | J | R | | | |
| 32A | 3SGR | Crystolon | 5ZF | 16 | 46 | 100 | F | K | S | | | |
| 32AC (blend) | 5SG | | AZ (blend) | 20 | 54 | 120 | G | L | T | | | |
| 38A | BRG | | Charger | 24 | 60 | 150 | H | M | U | | | |
| 48A | SG | | (blend) | | 70 | 220 | | N | V | | | |
| 53A | SXG | | NZ | | | | | O | Y | | | |
| 55A | NorZon Plus | | NZC (blend) | | | | | P | Z | | | |
| 57A | (blend) | | NZIII | | | | | | | | | |
| U57A | NQ Quantum | | NZIV | | | | | | | | | |
| 64A | | | NorZon | | | | | | | | | |
| 86A | | | | | | | | | | | | |
| 90A | | | | | | | | | | | | |
| FabCut | | | | | | | | | | | | |
| Gemini | | | | | | | | | | | | |
| Alundum | | | | | | | | | | | | |

| Coated Abrasives | | | |
|---|--|---------------|--|
| R 9 8 1 | | | |
| BACKING / BOND | PRINCIPAL ABRASIVE | COATING | RANDOM |
| A = Lightweight Paper (A-D wts.) excluding Waterproof | 1 = Aluminum Oxide | 1 = Openkote | Designates different products within the same product group. |
| F = Fiber | 2 = Aluminum Oxide | 2 = Closekote | |
| H = Heavy Paper / Resin Bond (E and F wts.) | 3 = Layered Aluminum Oxide | 3 = Openkote | |
| K = Cloth / Glue Bond (J and X wts.) | 4 = Silicon Carbide | 4 = Closekote | |
| Q = Various (e.g. Screen-Bak and Film) | 5 = Garnet | 5 = Openkote | |
| R = Cloth / Resin Bond (H, J, X and Y wts.) | 6 = Crocus & Emery | 6 = Closekote | |
| T = Waterproof Paper (A, C wts.) | 8 = Zirconia Alumina | 7 = Openkote | |
| U = Lightweight Waterproof Paper / Resin Bond | 9 = Norton SG - Ceramic Aluminum Oxide | 8 = Closekote | |
| | | 9 = Openkote | |
| | | 0 = Closekote | |

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