

**NORTON**

# NORTON ABRASIVES FOR METALLURGICAL ANALYSIS LABS

**new!**

www.nortonabrasives.com



## For Sample Preparation:

### Non-Reinforced Cut-Off Wheels

Developed specifically for sectioning of metal samples; burr-free cutting, minimal burn and distortion of metallurgical samples

### Waterproof Paper Discs

FEPA-graded (P280-P2000, fine grit) heat-treated abrasive for superior performance and consistent finish on metallurgical specimens

## Superior Abrasives for Sample Preparation

Norton aluminum oxide and silicon carbide products for sample preparation are engineered for use by scientists, engineers and lab technicians. New, Norton metallurgical cut-off wheels produce minimal disruption on metals being sectioned for microscopic evaluations. New, Norton Tufbak waterproof discs provide consistent, fine finishes. These products generate minimal wear rate and long life with superior surface integrity – to economically prepare all your metallurgical specimens.

### Metallurgical Non-Reinforced Cut-Off Wheels

- 9" - 14" diameter cut-off wheels developed specifically for microscopic metal analysis – for burr-free cutting, with minimal burn and distortion to the samples being sectioned and evaluated. (Use metallurgical cut-off wheels wet to minimize burn)
- The superior, quality bond generates pure cuts, while minimizing wheel wear and odor
- Operators can increase the number of quality cuts and spend less time replacing worn wheels
- Available in silicon carbide for titanium and other nonferrous metals. Aluminum oxide wheels are ideal for hard, medium, and soft metals, ferrous alloys and tool steels

NOTE: THESE ARE NON-REINFORCED CUT-OFF WHEELS – DESIGNED FOR USE ON FIXED-BASE TYPES OF MACHINES WHERE THE WORK IS SECURELY CLAMPED, GUARDED AND WHERE THE WHEEL OPERATES ON A CONTROLLED CUTTING PLANE.



### Tufbak Waterproof T247 and T461 Paper Discs

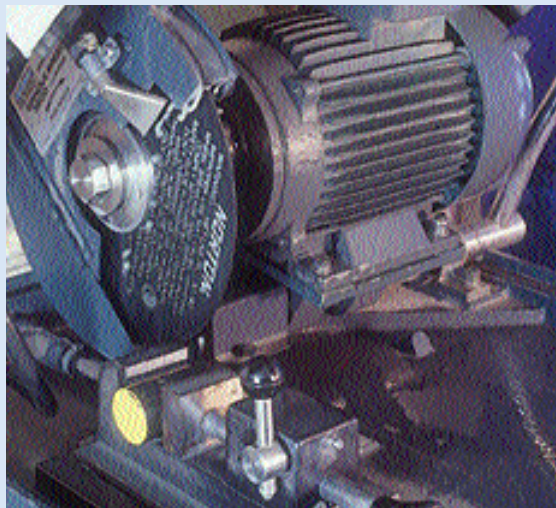
- 8" - 12" diameter blank and PSA tabbed discs for all metallurgical lab applications
- New, superior grain technology grinds cool with minimal impact on sample integrity
- FEPA-graded grain in the intermediate and finer grits gives a more consistent finish; heat treating the grain improves the cut rate and life of the disc
- The advanced bond and backing systems provide a great foundation for uniform grain coating and adhesion – resulting in resistance to premature wear, better finishes, and longer disc life
- Use 60, 120, 180 grit, ANSI-graded abrasive, C-wt. backing for fast initial cut rate
- P280, P400 grit, heat-treated, FEPA-graded abrasive with B-wt. backing is designed for intermediate applications that require consistent cut and finish
- P800, P1200, P1500, P2000 grit, FEPA-graded abrasive with B-wt. backing provides the best surface finish
- The tabs on the PSA discs allow easy removal of the liner

# Metallurgical Non-Reinforced Cut-Off Wheel Availability

| METAL / APPLICATION GUIDE                          | EXTERNAL MARKING | BEST        |
|--|------------------|-------------|
|  |                  | UPC         |
| <b>229mm x 1.6mm x 32mm (9 x 1/16 x 1-1/4)</b>     |                  |             |
| Very Hard Steels (Rc 55 - 68)                      | ML-109           | 66253117874 |
| Hard Steels (Rc 40 - 55)                           | ML-209           | 66253117875 |
| Medium Steels (Rc 30 - 40)                         | ML-309           | 66253117877 |
| Soft Steels (Rc 20 - 30)                           | ML-409           | 66253117828 |
| Nonferrous Metals                                  | ML-509           | 66253117829 |
| Titanium / Titanium Alloys                         | ML-609           | 66253117878 |
| <b>254mm x 1.6mm x 32mm (10 x 1/16 x 1-1/4)</b>    |                  |             |
| Very Hard Steels (Rc 55 - 68)                      | ML-110           | 66253117879 |
| Hard Steels (Rc 40 - 55)                           | ML-210           | 66253117880 |
| Medium Steels (Rc 30 - 40)                         | ML-310           | 66253117881 |
| Soft Steels (Rc 20 - 30)                           | ML-410           | 66253117830 |
| Nonferrous Metals                                  | ML-510           | 66253117831 |
| Titanium / Titanium Alloys                         | ML-610           | 66253117882 |
| <b>305mm x 2.0mm x 32mm (12 x .080 x 1-1/4)</b>    |                  |             |
| Very Hard Steels (Rc 55 - 68)                      | ML-112           | 66253322151 |
| Hard Steels (Rc 40 - 55)                           | ML-212           | 66253322152 |
| Medium Steels (Rc 30 - 40)                         | ML-312           | 66253322153 |
| Soft Steels (Rc 20 - 30)                           | ML-412           | 66253322099 |
| Nonferrous Metals                                  | ML-512           | 66253322100 |
| Titanium / Titanium Alloys                         | ML-612           | 66253322154 |
| <b>350mm x 2.5mm x 32mm (13.75 x 3/32 x 1-1/4)</b> |                  |             |
| Very Hard Steels (Rc 55 - 68)                      | ML-114           | 66253322863 |
| Hard Steels (Rc 40 - 55)                           | ML-214           | 66253322156 |
| Medium Steels (Rc 30 - 40)                         | ML-314           | 66253322157 |
| Soft Steels (Rc 20 - 30)                           | ML-414           | 66253322158 |
| Nonferrous Metals                                  | ML-514           | 66253322159 |
| Titanium / Titanium Alloys                         | ML-614           | 66253322160 |



Call your local Norton distributor to arrange a test in your lab. Your authorized Norton distributor can supply you with all the abrasive products you need and provide fast dependable service.



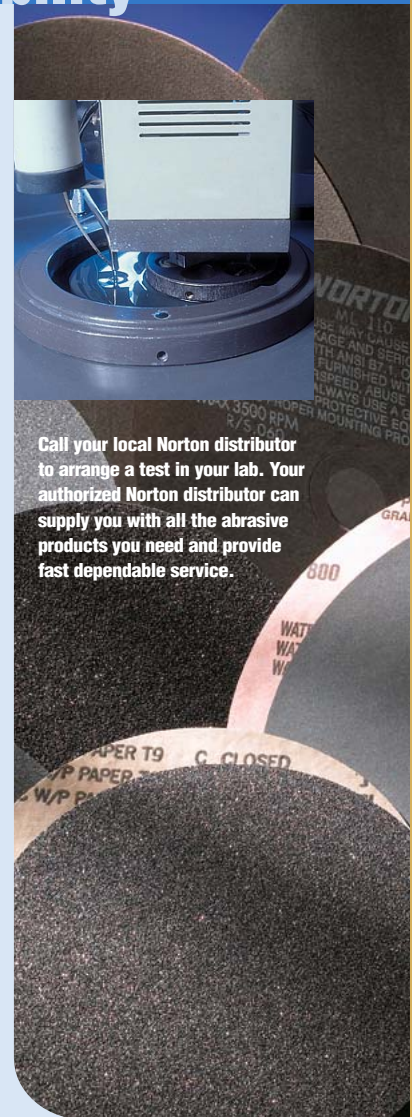
# Tufbak Waterproof Paper Disc Availability

## Blank Discs

| SPECIFICATION          | BETTER      | GOOD        |
|------------------------|-------------|-------------|
|                        | UPC NO.     | UPC NO.     |
| <b>8" Blank Discs</b>  |             |             |
| T461 60-C              |             | 66261156247 |
| T461 120-C             |             | 66261156248 |
| T461 180-C             |             | 66261156249 |
| T247 P280-B            | 66261156250 |             |
| T247 P400-B            | 66261156251 |             |
| T247 P800-B            | 66261156252 |             |
| T247 P1200-B           | 66261156253 |             |
| T247 P1500-B           | 66261156254 |             |
| T247 P2000-B           | 66261156255 |             |
| <b>10" Blank Discs</b> |             |             |
| T461 60-C              |             | 66261156265 |
| T461 120-C             |             | 66261156266 |
| T461 180-C             |             | 66261156267 |
| T247 P280-B            | 66261156268 |             |
| T247 P400-B            | 66261156269 |             |
| T247 P800-B            | 66261156270 |             |
| T247 P1200-B           | 66261156271 |             |
| T247 P1500-B           | 66261156272 |             |
| T247 P2000-B           | 66261156273 |             |
| <b>12" Blank Discs</b> |             |             |
| T461 60-C              |             | 66261156283 |
| T461 120-C             |             | 66261156284 |
| T461 180-C             |             | 66261156285 |
| T247 P280-B            | 66261156286 |             |
| T247 P400-B            | 66261156287 |             |
| T247 P800-B            | 66261156288 |             |
| T247 P1200-B           | 66261156289 |             |
| T247 P1500-B           | 66261156290 |             |
| T247 P2000-B           | 66261156291 |             |

## PSA Discs with Tabs

| SPECIFICATION                  | BETTER      | GOOD        |
|--------------------------------|-------------|-------------|
|                                | UPC NO.     | UPC NO.     |
| <b>8" PSA Discs with Tabs</b>  |             |             |
| T461 60-C                      |             | 66261156256 |
| T461 120-C                     |             | 66261156257 |
| T461 180-C                     |             | 66261156258 |
| T247 P280-B                    | 66261156259 |             |
| T247 P400-B                    | 66261156260 |             |
| T247 P800-B                    | 66261156261 |             |
| T247 P1200-B                   | 66261156262 |             |
| T247 P1500-B                   | 66261156263 |             |
| T247 P2000-B                   | 66261156264 |             |
| <b>10" PSA Discs with Tabs</b> |             |             |
| T461 60-C                      |             | 66261156274 |
| T461 120-C                     |             | 66261156275 |
| T461 180-C                     |             | 66261156276 |
| T247 P280-B                    | 66261156277 |             |
| T247 P400-B                    | 66261156278 |             |
| T247 P800-B                    | 66261156279 |             |
| T247 P1200-B                   | 66261156280 |             |
| T247 P1500-B                   | 66261156281 |             |
| T247 P2000-B                   | 66261156282 |             |
| <b>12" PSA Discs with Tabs</b> |             |             |
| T461 60-C                      |             | 66261156292 |
| T461 120-C                     |             | 66261156293 |
| T461 180-C                     |             | 66261156294 |
| T247 P280-B                    | 66261156295 |             |
| T247 P400-B                    | 66261156296 |             |
| T247 P800-B                    | 66261156297 |             |
| T247 P1200-B                   | 66261156298 |             |
| T247 P1500-B                   | 66261156299 |             |
| T247 P2000-B                   | 66261156300 |             |



Call your local Norton distributor to arrange a test in your lab. Your authorized Norton distributor can supply you with all the abrasive products you need and provide fast dependable service.

**Best  
Better  
Good**

For most abrasive applications, Norton offers up to three product performance levels – GOOD, BETTER and BEST. Norton metallurgical cut-off wheels are in the BEST tier. They represent products that are unmatched in the industry and provide the lowest total cost for the application.

Norton Tufbak T247 discs are in the BETTER category and represent superior performing products for the user who requires a high level of productivity and low total abrasive cost.

Norton Tufbak T461 discs are in the GOOD category and represent a value for the user who wants Norton quality products with consistent performance and a very competitive price.

To put Norton abrasives to work, contact your local Norton distributor. Call (508) 795-5000 or email us at [buynorton@nortonabrasives.com](mailto:buynorton@nortonabrasives.com) and we'll put you in contact with your local Norton industrial distributor. Or, visit our website at [www.nortonabrasives.com](http://www.nortonabrasives.com) to view our online catalog and learn about our latest products and applications.

**NORTON**

**YOUR SOURCE FOR COST SAVING ABRASIVE SOLUTIONS™**

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**FORM #7845**

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