Abrasive Backings
Balanced Features for Outstanding Results

• Custom Products
• Performance Based Attributes
• Security of Supply
• Technical Expertise and Support

neenahperformance.com/products/abrasive-backings
**NEENAH® Performance Materials** has over 60 years of experience in the manufacturing of latex-saturated and coated papers used in abrasive backings products worldwide.

**NEENAH® Performance Materials** has an established track record for consistent quality and performance. Our saturated and coated paper products have gained worldwide acceptance as the preferred choice for premium waterproof and dry sanding applications.

Neenah Performance Materials has manufacturing facilities in Bruckmühl, Bavaria in Germany as well as Munising, Michigan, and Brownville, New York in the United States. Our abrasive backings portfolio includes over 180 different products specifically designed to offer performance and value in a variety of end use applications including: wet sanding, dry sanding, sheets, discs, belts, and other products in a variety of basis weights.

Recognizing that not all customers’ needs or performance requirements are the same, Neenah Performance Materials offers custom design support to match the performance of the backing with the raw material or processing needs of individual customers. Whether the application requires modifications of basis weights, coatings or colors, our abrasive backings will be tailor-made for the customer and application.

In addition, Neenah Performance Materials commitment to the abrasives industry is supported with a complete staff of technical, sales, marketing, and customer service professionals that are dedicated to servicing coated abrasive manufacturers worldwide. And recognizing the importance of technology and innovation, Neenah Performance Materials research and development efforts focus on improving the value and capabilities of next-generation abrasive backings. This dedication and commitment has helped Neenah Performance Materials establish and maintain a leadership position as a premier manufacturer of backings for coated abrasives.

Learn how we can put these capabilities and products to work for you.

Refer to page 9 of this brochure for contact information.
NEENAH® Paint and Polish Wet Sanding Materials

NEENAH® Performance Materials waterproof backing systems are designed for traditional wet sanding applications such as automotive repair, general metal sanding, and oil sanding of wood. All are engineered to provide flexibility, durability, toughness, and smoothness. This unique balance of properties helps assure that the backing life exceeds that of the customer-applied grit, even after prolonged periods of immersion in water.

NEENAH® paint and polish wet sanding materials are backings with extreme smoothness allowing for application of the finest grits for paint and polishing applications.

These backings are saturated with proprietary polymer rubber systems for a cloth-like feel when hand sanding. The backsize coating provides a premium level of grip while wet, as well as providing an excellent surface for printing.

**Note:** These backings are made in custom colors including contrasting barrier coats that are different than the color of the paper.

neenahperformance.com/products/abrasive-backings
NEENAH® Wet or Dry Sanding Abrasive Papers

NEENAH® Performance Materials premium abrasive backings are designed for maximum performance no matter how end-users work, wet or dry. These papers are reinforced with the highest levels of polymer saturant as well as custom additives to optimize performance for a customer’s application. This product line is extremely durable with very high levels of wet or dry delamination resistance.

Note: Synthetic fibers can also be added to these premium backings to provide additional tear strength and resistance to curl.

Premium backings can be tailor-made to have the best balance of properties for end-use products where the abrasives manufacturer knows the end customer might use the product for wet or dry sanding. These backings are available in basis weights from 80 - 150 gsm allowing for premium sanding from delicate hand sanding to aggressive power sanding discs and belts.

Note: Like all NEENAH® Performance Materials backings, this product line can be made in custom colors to match the branding requirements of customers.

Performance Attributes

<table>
<thead>
<tr>
<th>Backsize</th>
<th>NO</th>
<th>NO</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basis Weight (gsm)</td>
<td>100</td>
<td>120</td>
<td>148</td>
</tr>
<tr>
<td>Caliper (mm)</td>
<td>.14</td>
<td>.16</td>
<td>.20</td>
</tr>
<tr>
<td>Tensile Ratio</td>
<td>1.4</td>
<td>1.4</td>
<td>1.3</td>
</tr>
<tr>
<td>MD Tensile (kg/15mm)</td>
<td>11</td>
<td>13.3</td>
<td>14</td>
</tr>
<tr>
<td>CD Tensile (kg/15mm)</td>
<td>7.7</td>
<td>9</td>
<td>11</td>
</tr>
<tr>
<td>MD Stretch (%)</td>
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<td>3.3</td>
<td>3</td>
</tr>
<tr>
<td>MD Aged Wet Tensile (kg/15mm)</td>
<td>5</td>
<td>5.3</td>
<td>6</td>
</tr>
<tr>
<td>Elmendorf Tear MD (g/16 sheets)</td>
<td>90</td>
<td>125</td>
<td>150</td>
</tr>
<tr>
<td>Elmendorf Tear CD (g/16 sheets)</td>
<td>95</td>
<td>125</td>
<td>150</td>
</tr>
<tr>
<td>Smoothness (Sheffield)</td>
<td>85</td>
<td>115</td>
<td>200</td>
</tr>
</tbody>
</table>
NEENAH® Wet Sanding Abrasive Papers

NEENAH® wet sanding abrasive backings are available in basis weights from 80 - 150 gsm and have specially designed barrier coatings for superior holdout and adhesion to make and size coatings. Barrier coatings can be formulated to be compatible with water or solvent-based make coatings.

And because many make and size coatings involve highly complex chemistries, custom barrier coating formulations can be designed to enhance the barrier coating interaction with your systems.

NEENAH® Performance Materials backsize coatings enhance the functional performance of the finished coated abrasive. These specialty coatings provide added curl resistance, increased water resistance and improved grip during hand sanding applications.

Note: Like all NEENAH® Performance Materials backings, this product line can be made in custom colors to match the branding requirements of customers.

Security of Supply:
Available from Munising, Michigan, USA, and Bruckmühl, Bavaria, Germany.
**NEENAH® Abrasive Backings for Dry Finishing Applications**

NEENAH® dry finishing abrasive backings are available in basis weights from 80 – 150 gsm and provide the right balance of strength, flexibility, and tear resistance needed for tough jobs, including wood, automotive, marine, furniture and metal sanding.

Unlike many conventional kraft papers found at retail stores, NEENAH® dry finishing abrasive backings are latex saturated and coated for excellent flexibility, durability, surface receptivity, and end-product performance.

*Note: Available products in this line are specifically made for delicate hand sanding as for woodworking or musical instrument manufacturing and repair.*

**NEENAH® Dry Finishing Papers**

These finishing papers also contain barrier coatings designed for use with common water-based make coatings, such as animal-hide glue. These tough barrier coatings help improve grain adhesion and maintain full flexibility of the base by preventing make coat penetration which can cause brittleness. Barrier coatings can also help improve the adhesion and resistance to penetration of non-glue make coat systems, such as the UF, PF and epoxy-based systems used in dry finishing applications.

While backsize coatings are often thought to be for waterproof papers, these coatings can also be applied to the lightweight dry sanding product line to provide benefits. A backsize, like synthetic fiber, will help with dynamic stability and reduce curl in process and in final product. Backsize coatings can also be modified to maximize “dry grip” for hand sanding applications.

As many lightweight dry sanding grades are used for PSA or loop-laminated discs, a backsize layer can act as a barrier to the PSA or glue used to apply the loop. This backsize coating may generate savings because more of the PSA or glue stays on the surface, rather than soaking into the backing.

*Note: Like all NEENAH® Performance Materials backings, the lightweight dry finishing backings can be made in custom colors to match the branding requirements of customers.*

<table>
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<th>Performance Attributes</th>
<th>FF 100 / B / 802054 YLW</th>
<th>FF 150 / BA / 311471 BRW</th>
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<tr>
<td>Basis Weight (gsm)</td>
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<td>Caliper (mm)</td>
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<td>1.4</td>
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<td>MD Tensile (kg/15mm)</td>
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<td>13.5</td>
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<td>CD Tensile (kg/15mm)</td>
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<td>MD Stretch (%)</td>
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<td>2.8</td>
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<tr>
<td>MD Aged Wet Tensile (kg/15mm)</td>
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<td>NA</td>
</tr>
<tr>
<td>Elmendorf Tear MD (g/16 sheets)</td>
<td>81</td>
<td>135</td>
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<tr>
<td>Elmendorf Tear CD (g/16 sheets)</td>
<td>77</td>
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<td>Smoothness (Sheffield)</td>
<td>118</td>
<td>160</td>
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**Security of Supply:**
Available from Munising, Michigan, USA, and Bruckmühl, Bavaria, Germany.

[neenahperformance.com/products/abrasive-backings](http://neenahperformance.com/products/abrasive-backings)
NEENAH® DuraFlat® Fibre

**Abrasive Sanding**

NEENAH® DuraFlat® Fibre is a wet-laid combination of synthetic fiber, cellulose fiber, and reinforcing saturants in order to form an ultra-durable substrate for the most aggressive grinding applications.

This material is intended for very special applications where normal paper, cloth, or film materials would break down due to the high forces and temperatures created by the grit against the surface.

Typical applications would be material removal as in paint from metal surfaces, paint or stain from wood floors, or renewing wood by completely removing the top layer.

While overkill for hand sanding, DuraFlat® Fibre is “beyond paper”, an excellent tool for premium sanding discs and belts.

*Note: DuraFlat® Fibre can be tailor-made to customer needs including colors, coatings, basis weights, etc.*

**Performance Attributes**

<table>
<thead>
<tr>
<th></th>
<th>Fine Grit Wet Sanding</th>
<th>Dry Sanding</th>
<th>Hand Sanding</th>
<th>Flexibility</th>
<th>Durability</th>
<th>Lack of Curl</th>
<th>Smoothness</th>
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<tbody>
<tr>
<td>GOOD</td>
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<tr>
<td>BETTER</td>
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</tr>
<tr>
<td>BEST</td>
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</tr>
<tr>
<td>VERY BEST</td>
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<td>●</td>
<td>●</td>
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<td>●</td>
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150 gsm DuraFlat® Fibre

<table>
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<th>Value</th>
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<td>Basis Weight (gsm)</td>
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<td>MD Aged Wet Tensile (kg/15mm)</td>
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</tr>
<tr>
<td>Elmendorf Tear MD (g/16 sheets)</td>
<td>240</td>
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<tr>
<td>Elmendorf Tear CD (g/16 sheets)</td>
<td>250</td>
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<tr>
<td>Smoothness (Sheffield)</td>
<td>240</td>
</tr>
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</table>

Security of Supply:
Available from Munising, Michigan and Brownville, New York, USA
NEENAH® MultiTask® Wet or Dry Abrasive Backings

NEENAH® MultiTask Abrasive Backings have been designed for wet or dry sanding in value applications. The MultiTask products are intended for customers that would like to upgrade from kraft or oil-bond papers. These backings are available in basis weights from 80 – 150 gsm allowing for applications from hand sanding sheets to discs. Like the name suggests, MultiTask backings are designed to handle any environment.

For wet sanding applications, these products provide a stable backing for abrasive grit coatings. In use, they are flexible and resistant to delamination which prevents grit loss during use.

For dry sanding applications, unlike kraft papers, MultiTask backings provide excellent foldability without cracking or other signs of brittleness. These products are available with and without reinforcing synthetic fibers. The version with synthetic fibers has improved the tear strength for use as discs or pads for power tools. While some value-priced backings are susceptible to curl, the MultiTask backings lay-flat, especially with the addition of synthetic fibers

Note: Like all NEENAH® Performance Materials backings, this product line can be made in custom colors to match the branding requirements of customers.

neenahperformance.com/products/abrasive-backings
NEENAH® Performance Materials serves more than 15 markets in 70 countries with our extensive and diverse product lines.

- Pre-mask
- Medical Packaging
- Abrasives
- Publishing
- Clean Room
- Construction Components
- Digital Transfer
- Release
- Tape
- Furniture
- Label
- Heat Transfer
- Wallcovering
- WashTag

### Performance Attributes

#### Paper:
- High Tensile Strength
- Synthetic Fiber Papers for High Tear Resistance
- Custom Pulp Formulations for Customer Need
- Custom Colors
- Dimensional Stability to Resist Curl in Converting and Use

#### Saturation:
- Nitrile Butadiene Rubber for Softest Feel in Wet Sanding
- Styrene Butadiene Rubber
- Acrylic
- Epoxy
- Solvent Resistance
- High Temperature Resistance
- Custom Colors

#### Coatings:
- Barrier Coatings to Match Make Coat System
- Custom Colors, Including Contrasting Colors to the Paper
- Super Smooth Coatings for Fine Grit Abrasives
- Backsize Coatings for Waterproofing or Hand Grip & Feel
- Printable
- Coat one (C1S) or Both Sides (C2S)

For product line info visit: neenahperformance.com
Contact Us:

Need assistance? More information on our products? Or simply have feedback?
We always welcome hearing from our customers. Use any of the methods below to contact us.

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Alpharetta, Georgia 30005

Phone:
+1 800.344.5287 (Neenah Performance Materials - Customer Service)
+1 906.387.2700 (Neenah Paper Technical Products - Munising Mill)

Email:
neenahperformance.com/contact

Notes: