

BEAR-TEX SURFACE FINISHING PRODUCTS

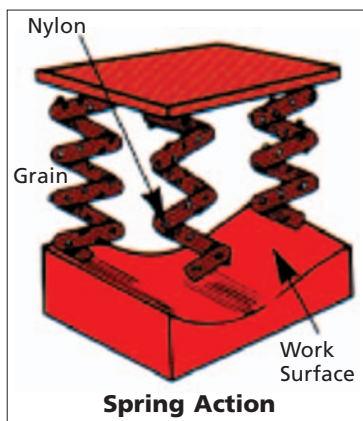


Products for polishing, deburring, finishing & cleaning

The majority of Beartex surface finishing products consist of a non woven web of nylon fibres... impregnated throughout with abrasive grain... and bonded with synthetic resins... this design produces a cushioned, three dimensional material that is extremely pliable and long lasting. The uniform dispersion of abrasive throughout the web provides a constant supply of new abrasive grain, as the old grain and fibres wear away during use.



Beartex products with their open mesh construction, are waterproof, washable, resilient, conformable, non loading, non conductive, non metallic, non rusting. Individual forms and shapes of this material may offer additional features. For example, Beartex



wheels are easily performed to conform to special-shaped work-pieces.

Since these products are designed for use where stock material is not required, it is often said that Beartex surface finishing products begin where other abra-

sive items leave off. The utility of these products can be best appreciated by an understanding of the relatively non aggressive nature of nylon and the grit selection, inherent in the Beartex material. Whereas 60 to 80 grit may be considered intermediate sizes in other abrasive products, they are considered coarse for Beartex items. In fact, it is common in Beartex products to find grit blends extending up through the microfine (1000 grit) range.

The broad range of shapes, types, abrasives, grit sizes and densities offered in Beartex material results in a product that can be used on a wide variety of surfaces. These include **aluminium, brass, copper, nickel, chrome plate, stainless steel, zinc, titanium, ceramic, glass, plastic, fiberglass, wood, plywood and others.** Applications include **deburring, cleaning, scrubbing,**

scouring, blending, polishing, highlighting, deflashing plastics, defuzzing plywood, dulling laminates, removing oxides and rust, scuffing paint before repaint, rubbing sealers, removing raised fibres in wood and imparting satin and decorative finishes. It might even be safe to say that there is a Beartex surface finishing product for nearly all cleaning and finishing operations.

Beartex products offer the following advantages

- ▶ A controlled cut without stock removal
- ▶ No discolouration of workpiece
- ▶ Ability to automate operations
- ▶ Conforms readily to irregular surfaces
- ▶ No dust generation

Conventional Surface Cleaning Products:

Beartex products offer an excellent alternative to bristle brush, set up wheels, greaseless compounds, wire brush and steel wool.

Abrasives in Beartex Products:

Beartex products are manufactured by either using Silicon Carbide or Aluminium Oxide abrasive grain.

Silicon Carbide grains are sharper and tend to cut faster and produce a fine scratch pattern on most surfaces. Aluminium Oxide is more aggressive on most steel applications and produces a coarser scratch pattern compared to silicon carbide. Silicon Carbide products are grey in colour and Aluminium Oxide products are available in maroon or tan colour.



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NON-WOVEN ABRASIVES

Grit sizes in Beartex products:

The grit size refers to the size of the abrasive grain impregnated on the nylon web during manufacturing. Use of large size abrasive particle results in a Beartex product that acts more aggressively and produces a coarser finish. Small size abrasive particles in Beartex products produce a fine finish.

Beartex grit sizes are mentioned below (smaller the number, the larger is the particle size)

Grading Designations	Grit Size or Mesh Numbers
Microfine	1000-1200
Ultrafine	600
Very Fine	320
Fine	220
Medium	120
Coarse	80

Density:

The product density refers to the hardness of the wheel. It also refers to the number of fibres that have been compressed in to the nylon web material. The "6" as in 1-6SF refers to a density that is softer compared to "9" as in 1-9SF, a harder wheel. Higher the number harder is the wheel.

Bonding Agents:

A variety of resins are used to get the required hardness, softness, toughness, flexibility and other characteristics required of the finished product.

Product Shapes and Sizes:

Beartex products are classified into six major product groupings:

1. Flat stock: Hand pads, rolls and discs
2. Specialities: SCF discs, rapid strip discs, floor pads, spindle mounted mops
3. Belts
4. Flap wheels
5. Convolute wheels
6. Unified wheels

Alternative Finishing Products vs Beartex Surface Finishing Products

The following chart outlines the advantages achievable when using Beartex products as an alternative to other cleaning, blending, deburring and finishing methods.

Alternative Finishing Methods	Key Application	Beartex Products Used as a Replacement	Advantages of Beartex Products over Alternative Finishing Methods
Bristle Brush	Cleaning	<ul style="list-style-type: none"> - Unified Wheel - Flap Wheel - Rapid Strip Discs 	<ul style="list-style-type: none"> - Superior cleaning performance, - Higher productivity, - No slurry of compound required - More consistent finish - Compound dust and flying bristle eliminated
Set-Up Wheels	Polishing-Blending	<ul style="list-style-type: none"> - Unified Wheel 	<ul style="list-style-type: none"> - Compound & dust eliminated - Dust free environment - Uniform surface pattern
Steel Wool	Polishing	<ul style="list-style-type: none"> - Hand pads - Rolls - Discs 	<ul style="list-style-type: none"> - Faster, longer life - Low pressure required - Non rusting - Cleaner, safer... no splitters
Wire Brush	Cleaning	<ul style="list-style-type: none"> - Rapid Strip Discs 	<ul style="list-style-type: none"> - Superior cleaning - Flying of wire strands eliminated