NONWOVEN AIRFILE BELTS

Performance Characteristics

Nonwoven material retains very specific advantages over conventional coated abrasives.

• The dense and extremely open construction has three main advantages over coated abrasives of the same grit.
• Nonwoven material will resist loading on several applications - particularly soft metals, such as aluminum and mill scale on mild steel.
• Nonwoven is highly conformable which provides a much more consistent finish without gouging or leaving grinding marks on a work piece.
• Three dimensional construction add additional life to the grinding process compared to the same grit used in coated abrasives.

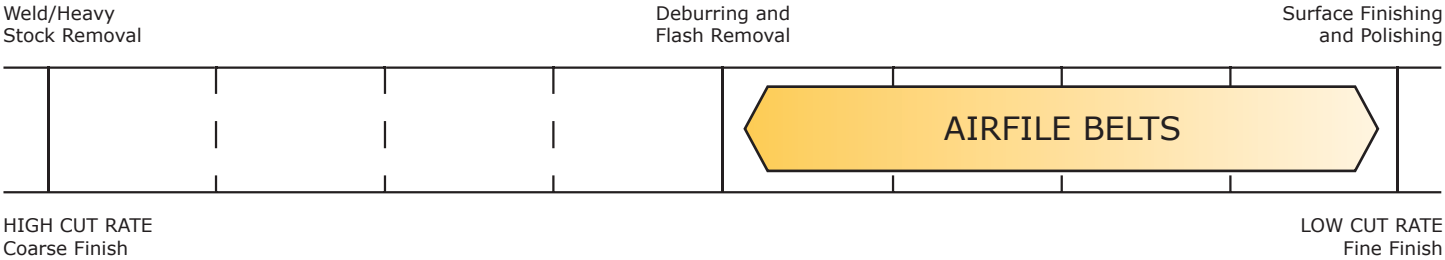
Coated Structure

Nonwoven Structure

Research and Development

Arc Abrasives, Inc. is proud to introduce a new, rugged, nearly unbreakable belt splice for our Nonwoven Airfile Belts.

• Arc has spent over 1,000 hours of research and development, combined with testing at key end user accounts to develop this new splice.
• Arc offers this new product in our exclusive X-Flex belt material in coarse, medium and fine.



Applications by Metal

Arc's Nonwoven Airfile Belts lend themselves very well to specific applications due to the construction.

Mild Steel
• For finishing inside corners and flat surfaces, nonwoven products will work extremely well by refining your scratch pattern with a very consistent finish. Coarse and Medium nonwoven materials will leave a suitable finish in one step, after your weld has been removed, for most painted surfaces.
• If removing the burr off of any geometry, nonwoven works very well. Due to the construction and conformability, it allows rapid removal of burrs without removing much of the parent metal. This is a critical difference, compared to coated abrasive that tend to remove the burr as well as the parent material - leaving a sharp surface edge.

Aluminum and Non-Ferrous Casting
• Nonwoven is the choice for finishing due to it's resistance to loading. Nonwoven will generate much less heat while providing three to four times the life compared to coated materials.
• Nonwoven will rapidly remove burrs, and not the parent material, without loading.

Stainless Steel
• Nonwoven products have proven their performance over the years in finishing stainless steel. Clearly, the extended life as well as more consistent RA values, has been demonstrated in this industry.
• When deburring on stainless, much like burr removal on mild steel, the nonwoven will show to be more conformable with less removal of the parent material.

Grades	Course (CRS) Medium (MED) Very Fine (VFN)
Backing	Scrim
Belt Size	Reference page 62 of our 2008 Price Guide

Grit Comparison

CRS	Equal to 120 Grit
MED	Equal to 180 Grit
VFN	Equal to 320 Grit

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