MIRKA

Surface Finishing in the Modern

Aerospace Industry

Reach New Heights With Mirka's Solutions

Abrasives



mirka.com/en-us/

Power Tools



Polishing Compounds





READY FOR **TAKEOFF?**

Aircraft components need to perform under the most demanding conditions. We're talking extreme temperature variations and constant exposure to moisture, salt and other corrosive agents. In short, aircraft parts have to withstand any test that time or the unforgiving elements throw at them.

In order to do so, your components require meticulous surface treatment. Even the tiniest imperfection or scratch can become a stress point where friction or corrosion builds up over time, and rust or failure ensues.

With Mirka's premium abrasives, power tools and automation solutions, you'll reach your surface finishing goals faster and with better results.

BOOST YOUR BASE MAINTENANCE **SUSTAINABLY**

Achieving a low-carbon operation isn't easy, but it's a necessary goal for any company aiming to stay competitive in the aviation industry. At Mirka, we have a passion for innovation and a mission to give people the opportunity to perform better with a smaller environmental impact.

You can achieve more sustainable base maintenance by choosing Mirka's dust-free surface finishing solutions. Our products are proven to be more effective and have a longer lifespan than traditional abrasives. Additionally, with our global service network, you have access to service and spare parts that facilitate cost-effective and sustainable operations, extending the life cycles of both tools and consumables.

Opting for Mirka is a smart way to future-proof your value chain. We are committed to reducing our environmental footprint and have signed the Science Based Targets initiative (SBTi). We report our sustainability practices through EcoVadis and the Carbon Disclosure Project (CDP), and we actively lead the Sustainable European Abrasive Manufacturers (SEAM) program.

Read more about our commitment to sustainable best available technologies on our website:
https://www.mirka.com/en-us/company/sustainability/

EXTERIOR



APPLICATIONS

- Paint removal
- Surface preparation
- Removal of oxidation and pits
- Dent and scratch removal, post-corrosion smoothing

Paint Removal and Surface Preparation

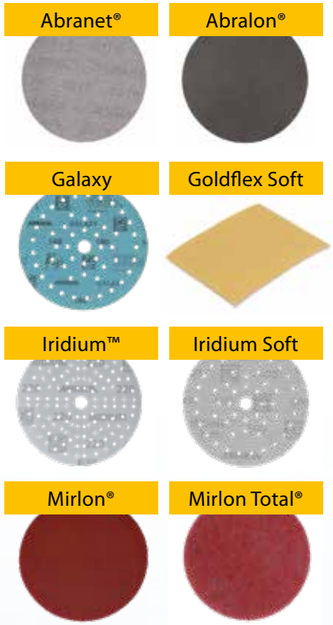
For paint removal or surface preparation on composite or aluminum surfaces, we recommend using Abranet® or Mirka Iridium™ abrasives, grit 220–320.

Corrosion Removal

Use Mirlon Total® or Abranet® grit 320–400 to remove oxidation and shallow corrosion pits that are no more than 0.025 mm (0.001") deep. For deeper corrosion pits and flaking up to 2.5 mm (0.10") deep, use Abranet, grit 120–220.

Dent and Scratch Removal, Post-Corrosion Smoothing

Blend-out repair, dent or scratch removal and post corrosion smoothing is best tackled using Galaxy or Goldflex Soft.



INTERIOR



APPLICATIONS

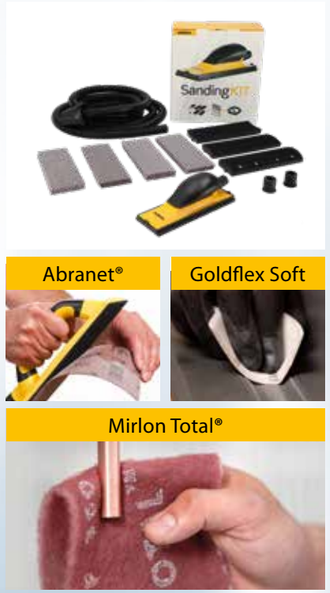
- Preparation for refinishing and repair
- Oxidation cleaning and repaint preparation

Preparation for Refinishing and Repair

Prepare everything from floorboards to interior panels for refinishing or repair by hand sanding, using Abranet® or Goldflex Soft, grit 220–400.

Oxidation Cleaning and Repaint Preparation

Clean and prepare your aluminum or steel brackets or interior frames using Mirka's non-woven, resin-bonded abrasive, Mirlon Total®.



COMPONENTS

APPLICATIONS

- Clarity restoration
- Corrosion removal and paint repair preparation
- Cleaning rust and pitting
- Coating preparation
- Paint removal











Restoring Clarity to Lights

UV rays and physical abrasion can cause lights to become faded over time. Restore their clarity using Mirka's Abralon® abrasive and polish with the Polarshine® polishing compounds.

Polycarbonate Polishing and Windshield Reconditioning

Save money by restoring windows instead of replacing them. Start with sanding using Abralon® abrasives grits 360, 500, 600 and 1000 consecutively. You can choose freely between wet and dry sanding, and you can start with a coarser grit, like 180, if the scratches are deep. Wipe the surface clean before each sanding step and finish with polishing using Polarshine® polishing solutions.

Corrosion Removal and Paint Repair Prep on Engine Accessory Housing

Use Mirlon Total® or Abranet® grit 320–400 abrasives when you are preparing your engine accessory housing for the paint repair. For tight spaces, we recommend using a Mirka® FBS-B Cordless File Belt Sander with narrow belts and conditioning belts.

Cleaning Rust and Pitting on Landing Gear, Dampers and Other Hardware

You are best served by a tough and long-lasting abrasive when you need to get rid of rust and pitting. Use Mirlon Total® or Abranet® to clean the surface and get a dense and perfectly even scratch pattern, or Abranet Max Flap Discs for more aggressive material removal.

Coating and Paint Preparation on Wheel Hubs and Landing Gear

Mirlon Total® and Abranet® are great alternatives to glass bead blasting and other conventional methods for removing paint and corrosion from landing gear and wheel hubs.









AEROSPACE INDUSTRY

PRODUCT HIGHLIGHTS

Abranet®

More than twenty years ago, Mirka introduced Abranet, an abrasive that features a net structure instead of the conventional paper backing. The net structure enables extremely efficient on-tool dust removal (99.97% removal of dust particles smaller than 0.3 µm in size) which improves both the work quality and the working environment.

Abranet changed the game in dust-free sanding, and it's as undisputedly effective now as it was revolutionary then.

Mirlon Total®

Mirlon Total is a three-dimensional fiber abrasive developed for contoured surface conditioning, cleaning and finishing.

This strong, non-woven abrasive performs well on steel and other metals and alloys as well as plastics, lacquers, paints and primers, and synthetic materials.

Iridium™ Soft

Iridium Soft is a flexible, cushioned abrasive engineered for precise control and protection during sanding. It removes just the right amount of material to help prevent oversanding and rework, plus delivers a fine, consistent scratch pattern, for quick, reliable paint preparation.

Mirka® PROS and ROS Pneumatic Sanders

The Mirka PROS and ROS pneumatic sanders are designed for optimal dust extraction, even at low suction power, thanks to a wider dust suction outlet that enhances efficiency.

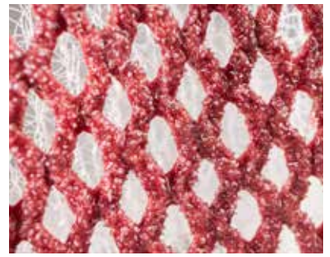
A key feature is the innovative 'brake seal,' which allows the backing pad to oscillate instead of spinning freely when the machine is held in the air. This eliminates deep marks on surfaces when the abrasive first contacts the job.

Mirka® AOS-B and ANGOS Cordless Tools

The Mirka AOS130-B is a small and energy-efficient spot repair sander with an award-winning ergonomic design. It's ideal for professionals who appreciate the freedom of movement of a cordless sander.

Grinding, sanding, weld cleaning, surface conditioning, cutting, deburring and paint removal – you can do it all with the Mirka® ANGOS. This compact grinding tool can be combined with a variety of accessories, depending on the task at hand.

reddot award 2017
winner















ABRASIVE TYPES FOR THE AEROSPACE INDUSTRY

Paper-Backed Abrasives

Paper-backed abrasives are the most cost-effective option for basic sanding applications. **Mirka Iridium™** is Mirka's premium paper abrasive for universal sanding. It has a mix of ceramic and aluminum oxide grains with precision coating that prevents clogging and reduces pilling.



Film-Backed Abrasives

For wet sanding, the preferred choice is usually a film-backed abrasive, like **Mirka Galaxy**. Galaxy is a multi-purpose abrasive with self-sharpening ceramic grains that's great for various applications in aerospace surface finishing.



Net Abrasives

When you want excellent dust extraction and cutting, your best bet is a net abrasive. The open mesh structure greatly reduces clogging and prolongs the lifespan of the abrasive.

Mirka is the original pioneer of net abrasives who introduced **Abranet®** – an abrasive that's been replicated multiple times but never surpassed.

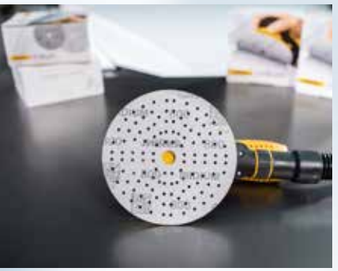


Non-Woven Abrasives

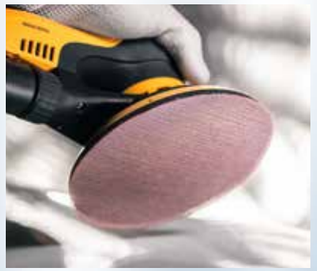
The primary benefits of non-woven abrasives are their flexibility and ability to conform to contoured and irregular shapes, as well as the controlled, even scratch pattern they create.

Mirka's non-woven products, **Mirlon®** and **Mirlon Total®**, are great all-purpose abrasives, perfect for matting, feathering and rust cleaning.













EXPLORE THE BENEFITS OF MIRKA'S PRODUCTS

There are many reasons to choose Mirka. Our customers enjoy:

- World-class abrasives, including patented products like Abranet®
- Consistency and reliability, whether it's in tool performance, product lifetime, or supply
- Sustainable abrasive options
- Timely localized support and seamless service

ABOUT MIRKA

The Finnish family-owned company Mirka Ltd is a world leader in surface finishing technology and offers a broad range of ground-breaking sanding solutions for industrial applications.

We are relentless pioneers who maintain that if something is worth doing, it is worth doing well. This approach upholds the quality standard that our customers have come to expect and appreciate in our products.



FACTS

- **80+ Years of experience**
- **19 Subsidiaries**
- **9 Production facilities**
- **1,600+ Employees**

Our premium sanding and polishing products and innovative power tools provide real benefits to customers in efficiency, surface finish quality and cost-effectiveness.

CONTACT US

For more details about our products and services, get in contact with the Mirka office closest to you or visit our website, mirka.com/en-us.

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The User is responsible for determining whether the Mirka product is fit for a particular purpose and suitable for the User's application.

The User is also responsible for complying with any applicable safety and health-related regulations and taking any safety and health-related precautions when using Mirka products. This includes, but is not limited to: wearing safety glasses, face masks, gloves, and protective clothing, if necessary; following instructions and warning labels; and operating Mirka products safely including at safe operating speeds.

By User's purchase or use of Mirka products, User acknowledges, represents, and warrants that User will: (a) comply with the foregoing; (b) assume all risks in connection with the use of Mirka products; and (c) read and understand the Mirka Warranty Policy.

Environmental responsibility is a natural part of Mirka's activities and product development. We make sure to take the environment into consideration in all our activities by following the environmental management system ISO 14001 and by offering unique products like our NET sanding discs that allow for a cleaner and therefore healthier work place.



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