

Norton 66252843233

Norton BlueFire ZA/AO Grinding and Cutting Wheels

MODEL 66252843233 - USER INSTRUCTION MANUAL

1. Introduction

This manual provides essential information for the safe and effective use of the Norton BlueFire ZA/AO Type 27 Grinding and Cutting Wheels, model 66252843233. These 7x1/8x5/8-11 inch wheels are designed for use with right-angle grinders for various applications including cutting-off, notching, stock removal, and light-duty side grinding. The advanced blend of zirconia alumina and premium aluminum oxide abrasives ensures extended lifespan and performance on a range of materials.

2. Safety Information

WARNING: Failure to follow safety instructions may result in serious injury or death.

- Never use these wheels on plate grip air sanders.
- Always use appropriate machine guards and flanges specifically designed for Type 27 wheels.
- Do not exceed the maximum RPM (Revolutions Per Minute) indicated on the wheel.
- Avoid dropping, jamming, or overspeeding the wheel.
- Always wear appropriate personal protective equipment (PPE), including eye protection, face shields, and body protection.
- Comply with all relevant safety standards, including OSHA and ANSI B7.1. Refer to the Safety Guide provided by the manufacturer for additional information.

Always inspect the wheel for damage before use. Do not use a damaged wheel.

3. Product Overview

The Norton BlueFire ZA/AO Grinding and Cutting Wheel is engineered for durability and efficiency. Its 1/8-inch thickness and depressed center design (Type 27) make it suitable for various tasks on a right-angle grinder. The abrasive blend of zirconia alumina and aluminum oxide provides a lifespan significantly longer than standard aluminum oxide wheels.



Figure 1: Norton BlueFire ZA/AO Grinding and Cutting Wheel (Model 66252843233)

This image displays the Norton BlueFire ZA/AO Grinding and Cutting Wheel. The wheel is blue with white and black text, featuring the Norton logo and 'BlueFire' branding. Key specifications such as 'CUTTING/GRINDING WHEEL', 'TYPE 27', and 'MAX RPM' are visible. Safety warnings in multiple languages are printed around the center hub. The wheel's dimensions are 7x1/8x5/8-11 inches.

4. Setup

Proper installation of the grinding wheel is crucial for safety and performance.

1. **Inspect the Wheel:** Before mounting, carefully inspect the wheel for any cracks, chips, or damage. A damaged wheel must not be used.
2. **Check Grinder Compatibility:** Ensure your right-angle grinder is compatible with 7-inch diameter, 5/8-11 inch arbor hole, and Type 27 depressed center wheels. Verify that the grinder's maximum RPM does not exceed the wheel's maximum RPM.
3. **Install Flanges:** Use the correct inner and outer flanges provided with your grinder for Type 27 wheels. Ensure they are clean and free of burrs.
4. **Mount the Wheel:** Place the wheel onto the grinder spindle, ensuring it sits flush against the inner flange. Secure it with the outer flange and tighten the spindle nut firmly using the appropriate wrench. Do not overtighten.

5. **Install Guard:** Always ensure the machine guard is properly installed and adjusted to provide maximum protection during operation.
6. **Test Run:** Before beginning work, run the grinder at operating speed for at least one minute in a protected area to ensure the wheel is properly mounted and runs true.

5. Operating Instructions

These wheels are designed for cutting-off, notching, stock removal, and light-duty side grinding. Always maintain control of the grinder and apply steady, even pressure.

- **Cutting-Off:** Position the wheel perpendicular to the workpiece. Apply light, consistent pressure, allowing the wheel to cut through the material. Avoid twisting or bending the wheel.
- **Notching:** For creating notches, use a controlled, shallow cutting motion.
- **Grinding:** For stock removal or light-duty side grinding, hold the wheel at a slight angle (typically 15-30 degrees) to the workpiece. Move the grinder smoothly across the surface. Avoid excessive pressure, which can lead to wheel damage or premature wear.
- **Material Contact:** Ensure the wheel makes contact with the workpiece at a consistent angle and pressure.
- **Cooling:** Allow the wheel to cool periodically during prolonged use to prevent overheating.

6. Material Compatibility

The Norton BlueFire ZA/AO wheels are versatile and suitable for a range of materials. Refer to the guide below for specific application recommendations.

Material/Application-To-Product Recommendation Guide

	BEST		BETTER	GOOD		
	Quantum3	NorZon Plus	BlueFire	Gemini	Metal	Masonry
CUTTING						
Mild Carbon / High Tensile Steel	◆	◆	◆	◆	◆	
Stainless Steel / Alloys	◆	◆	◆	◆	◆	
Contaminate Free*			◆ FC/INOX/SS	◆ INOX/SS		
Cast Iron	◆	◆		◆		
Gray Iron						
Aluminum / Bronze / Brass				◆ ALU		
Asphalt / Brick / Concrete						◆
Fiberglass / Plastic						◆
NOTCHING						
Mild Carbon / High Tensile Steel	◆	◆	◆	◆	◆	
Stainless Steel / Alloys	◆	◆	◆	◆ INOX/SS		
Contaminate Free*			◆ FC/INOX/SS	◆ INOX/SS		
Cast Iron	◆	◆	◆ Foundry	◆		
GRINDING						
Mild Carbon / High Tensile Steel	◆	◆	◆	◆		
Stainless Steel / Alloys	◆		◆	◆		
Contaminate Free*	◆		◆ FC/INOX/SS	◆ INOX/SS		
Cast Iron		◆	◆ Foundry	◆		
Gray Iron	◆		◆ Foundry	◆		
Aluminum / Bronze / Brass				◆ ALU		
Asphalt / Brick / Concrete						◆
BLENDING						
Mild Carbon / High Tensile Steel				◆ Flexible		
Stainless Steel / Alloys				◆ Flexible		
Aluminum / Bronze / Brass				◆ Flexible		
Fiberglass / Plastic				◆		

Typical Steel, Stainless Steel, Cast Iron Products: Angle Iron, Bar Stock, Ductile Pipe, Channel Iron, Decking, Rebar, I-Beams, Rail Steel, Studs, Tubing, and Welds
 * For use in nuclear and food industry applications that require contaminant free (<0.1% iron, sulfur or chlorine)

Figure 2: Material/Application-To-Product Recommendation Guide

This image displays a recommendation guide for various materials and applications. It shows different Norton product lines (Quantum3, NorZon Plus, BlueFire, Gemini, Metal, Masonry) and their suitability for cutting, notching, grinding, and blending tasks on materials such as Mild Carbon/High Tensile Steel, Stainless Steel/Alloys, Cast Iron, Gray Iron, Aluminum/Bronze/Brass, Fiberglass/Plastic. The BlueFire line is recommended for FC/INOX/SS on Stainless Steel/Alloys and Foundry on Cast Iron for cutting, notching, and grinding applications.

Summary of BlueFire ZA/AO Compatibility:

Application	Material	Recommendation
Cutting	Stainless Steel / Alloys	FC/INOX/SS
Cutting	Cast Iron	Foundry
Notching	Stainless Steel / Alloys	FC/INOX/SS
Notching	Cast Iron	Foundry
Grinding	Stainless Steel / Alloys	FC/INOX/SS

Application	Material	Recommendation
Grinding	Cast Iron	Foundry

Note: FC/INOX/SS indicates suitability for ferrous metals, stainless steel, and other stainless steel alloys. Foundry indicates suitability for foundry applications.

7. Maintenance

Proper maintenance and storage extend the life and ensure the safety of your grinding wheels.

- **Storage:** Store wheels in a dry, cool place, away from extreme temperatures and humidity. Keep them in their original packaging or a suitable container to prevent damage.
- **Handling:** Handle wheels carefully to avoid dropping or impacting them, which can cause unseen damage.
- **Inspection:** Always inspect wheels for damage before each use. Discard any wheel that shows signs of cracks, chips, or other defects.
- **Disposal:** Dispose of worn or damaged wheels responsibly according to local regulations.

8. Troubleshooting

If you encounter issues during operation, consider the following:

- **Excessive Vibration:** Check if the wheel is properly mounted and the flanges are clean and correctly seated. Ensure the grinder spindle is not bent.
- **Poor Cutting/Grinding Performance:** Verify that the wheel is suitable for the material being worked on (refer to Section 6). Ensure sufficient pressure is applied without forcing the wheel. Check if the wheel is worn out.
- **Rapid Wheel Wear:** This can be caused by excessive pressure, using the wrong wheel for the application, or improper storage. Review operating techniques and material compatibility.
- **Overheating:** Reduce pressure and allow the wheel to cool. Ensure proper ventilation around the workpiece and grinder.

9. Specifications






Feature	Detail
Model Number	66252843233
Brand	Norton
Wheel Type	Type 27 (Depressed Center)
Dimensions	7 inches (Diameter) x 1/8 inch (Thickness) x 5/8-11 inches (Arbor Hole)
Grit Material	Zirconia Alumina, Aluminum Oxide
Grit Type	30 Grit (Coarse)
Compatible Devices	Angle Grinder
Product Weight	Approximately 0.96 ounces per wheel

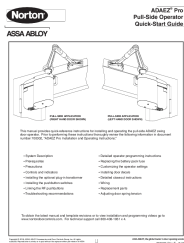
10. Warranty and Support

For information regarding product warranty, technical support, or specific application advice, please contact Norton customer service or visit the official Norton website. Keep your purchase receipt for warranty claims.

© 2023 Norton. All rights reserved. Information subject to change without notice.

Related Documents - 66252843233

	<p>Norton Abrasives Technical Information Guide</p> <p>Explore the comprehensive Norton Abrasives Technical Information Guide by Saint-Gobain. This resource details cutting-off wheels, grinding wheels, coated abrasives, super abrasives, and diamond blades, offering product selection, operating speeds, troubleshooting tips, and critical safety advice for industrial applications.</p>
	<p>Norton Industrial Applications 2024: Abrasive Solutions Catalog</p> <p>Explore the Norton 2024 Industrial Applications catalog, featuring a comprehensive range of cutting discs, grinding wheels, coated abrasives, and more from Saint-Gobain for diverse industrial needs.</p>
	<p>Norton Customer Service: 24/7 Live Person Support Numbers & Contact Guide</p> <p>This guide provides comprehensive contact information for Norton Customer Service, including phone numbers, live chat, mobile app support, and social media assistance. Get 24/7 live person support for Antivirus issues, cancellations, refunds, and technical problems.</p>
	<p>Norton Core Mini User Guide: Setup, Features, and Specifications</p> <p>This user guide provides comprehensive instructions for setting up and managing the Norton Core Mini, a secure wireless router designed to protect your home network. Learn about its features, system requirements, specifications, and how to create a protected mesh network.</p>
	<p>Norton Non-Woven Abrasives for Industrial Applications</p> <p>A comprehensive guide to Norton's non-woven abrasive products, detailing their applications, advantages, and product families for various industrial surface finishing and cleaning tasks.</p>



ADAEZ Pro Pull-Side Operator Quick-Start Guide

Quick-start guide for installing and operating the ADAEZ Pro Pull-Side Operator. Includes system description, prerequisites, precautions, controls, installation steps, programming, and remote control initialization.