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DEWALT DW8306

DEWALT DW8306 Zirconia Flap Disc User Manual

Model: DW8306

PRODUCT OVERVIEW

The DEWALT DW8306 is a Type 29 Zirconia Flap Disc designed for efficient material removal and extended life. This premium abrasive disc is suitable for various grinding applications, particularly on metal surfaces.



Image: DEWALT DW8306 Zirconia Flap Disc. This image displays the front of the flap disc, showing its dimensions (4-1/2" x 7/8"), grit (Z 36), maximum RPM (13,500/min), and safety warnings in multiple languages.

SAFETY INFORMATION

WARNING: To Prevent Serious Injury:

- Always wear eye, face, and body protection when operating.
- Do not drop the disc. Dropping can cause damage and lead to disc failure.
- Mount and use the wheel properly according to ANSI B7.1 and OSHA standards.
- Always use appropriate guards with your angle grinder.

Failure to follow these safety instructions can result in severe personal injury.

SPECIFICATIONS

| | |
|--------------------|-----------------------------------|
| Model Number | DW8306 |
| Disc Diameter | 4-1/2 inches (115mm) |
| Arbor Size | 7/8 inches (22.2mm) |
| Grit | 36 Grit (Zirconia) |
| Maximum RPM | 13,500 min ⁻¹ |
| Disc Type | Type 29 Flap Disc |
| Backing Material | Fiberglass |
| Compatible Devices | Angle Grinder |
| Material | Ceramic (Zirconia Abrasive Cloth) |

SETUP

- Inspect the Disc:** Before mounting, visually inspect the DW8306 flap disc for any signs of damage, cracks, or deformities. Do not use a damaged disc.
- Prepare the Angle Grinder:** Ensure your angle grinder is unplugged or its battery is removed before attempting to attach any accessories. Verify that the grinder's maximum RPM does not exceed the disc's maximum RPM of 13,500 min⁻¹.
- Mount the Disc:** Align the flap disc with the grinder's spindle and secure it using the appropriate flange and locking nut. Ensure the disc is seated firmly and correctly. Refer to your angle grinder's manual for specific mounting instructions.
- Install Guard:** Always ensure the grinder's safety guard is properly installed and adjusted to provide maximum protection during operation.

OPERATING INSTRUCTIONS

- Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, face shield, hearing protection, gloves, and suitable clothing, before starting any grinding operation.
- Secure Workpiece:** Ensure the workpiece is securely clamped or held to prevent movement during grinding.
- Start Grinder:** With the disc clear of the workpiece, turn on the angle grinder and allow the disc to reach full operating speed.
- Grinding Angle:** The Type 29 fiberglass backing provides an optimal grinding angle of 20-25 degrees. Maintain this angle for efficient material removal and to maximize disc life.
- Apply Moderate Pressure:** Apply steady, moderate pressure. Excessive pressure can lead to premature wear,

overheating, and potential disc damage. Let the abrasive do the work.

6. **Movement:** Move the grinder smoothly across the workpiece. Avoid dwelling in one spot, which can cause heat buildup and damage to the material or disc.
7. **Cool Down:** Allow the disc to cool periodically during extended use to prevent overheating.
8. **Shut Down:** When finished, turn off the grinder and wait for the disc to come to a complete stop before setting the tool down.

MAINTENANCE

- **Cleaning:** After each use, clean any dust or debris from the disc and the grinder.
- **Storage:** Store flap discs in a dry, cool place, away from direct sunlight and moisture. Keep them in their original packaging or a protective container to prevent damage.
- **Inspection:** Regularly inspect the disc for wear. Replace the disc when the abrasive flaps are significantly worn down to the backing, or if any damage is observed.

TROUBLESHOOTING

- **Disc Not Cutting Effectively:**
 - Check if the disc is worn out. Replace if necessary.
 - Ensure you are using the correct grit for the material and application.
 - Verify the grinder is operating at the correct RPM.
- **Excessive Vibration:**
 - Ensure the disc is properly mounted and secured on the grinder spindle.
 - Inspect the disc for damage or imbalance. Replace if damaged.
- **Disc Overheating:**
 - Reduce applied pressure.
 - Allow the disc to cool periodically.
 - Ensure proper grinding angle (20-25 degrees) is maintained.

WARRANTY AND SUPPORT

For warranty information and technical support regarding your DEWALT DW8306 Zirconia Flap Disc, please refer to the official DEWALT website or contact DEWALT customer service directly. Keep your purchase receipt as proof of purchase.

DEWALT Contact Information:

- **Website:** www.dewalt.com

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