

United Abrasives SAIT 77752

United Abrasives SAIT 77752 Non-Woven Interleaf Wheel User Manual

Brand: United Abrasives SAIT | Model: 77752

1. INTRODUCTION

The United Abrasives SAIT 77752 Non-Woven Interleaf Wheel is designed for industrial applications requiring a high-cut rate and a uniform scratch pattern. This wheel is constructed with alternating flaps of surface conditioning material and coated abrasive material. Its smear-resistant non-woven material ensures clean, smear-proof work surfaces and provides a blending action while leaving a consistent final finish on the workpiece. The interleaf design offers an aggression level between SAIT non-woven flap brushes and SAIT coated abrasive flap wheels.

This Medium grit wheel (60 or 80 grit coated abrasive material) is ideal for tasks such as removing heavy oxidation, blending, cleaning, and deburring. It is suitable for use on a variety of materials including aluminum, stainless steel, wood, fiberglass, and both ferrous and non-ferrous metals.

2. KEY FEATURES

- Constructed with alternating flaps of surface conditioning material and coated abrasives for high cut rate and uniform scratch pattern.
- Provides blending action while leaving a consistent final finish on the workpiece.
- Smear-resistant non-woven material ensures clean, smear-proof work surfaces.
- Interleaf design offers balanced aggression for various applications.
- Medium grit (60 or 80 grit coated abrasive material) is excellent for removing heavy oxidation, blending, cleaning, and deburring.
- Versatile for use on aluminum, stainless steel, wood, fiberglass, ferrous, and non-ferrous metals.

3. SETUP AND INSTALLATION

Proper installation of the interleaf wheel is crucial for safe and effective operation. Always ensure the power tool is

disconnected from its power source before attempting to install or remove the wheel.



Figure 3.1: The SAIT 77752 Non-Woven Interleaf Wheel. This image shows the cylindrical abrasive wheel with its central arbor, ready for mounting onto a compatible power tool such as a die grinder. The wheel features multiple layers of abrasive material, indicating its interleaf construction.

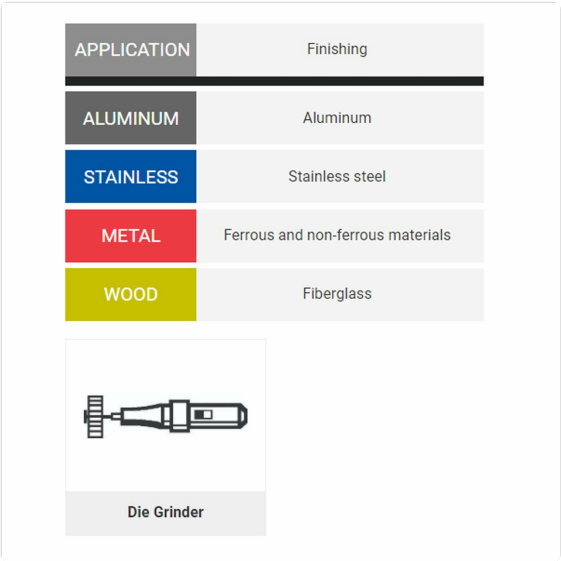


Figure 3.2: Application and Material Compatibility Chart. This chart illustrates the recommended applications (Finishing) and compatible materials for the wheel, including Aluminum, Stainless steel, Ferrous and non-ferrous metals, and Fiberglass. It also shows an icon representing a Die Grinder, indicating the type of tool this wheel is designed for.

- 1. Inspect the Wheel:** Before mounting, visually inspect the interleaf wheel for any signs of damage, cracks, or deformities. Do not use a damaged wheel.
- 2. Check Tool Compatibility:** Ensure your power tool (e.g., die grinder) is compatible with the wheel's arbor size and that its maximum RPM rating is equal to or greater than the wheel's maximum RPM. The 77752 wheel has a maximum R.P.M. of 15,000.
- 3. Mounting:** Securely insert the wheel's arbor into the collet or chuck of your power tool. Tighten the collet/chuck firmly according to your tool's instructions to prevent slippage during operation.
- 4. Test Run:** After mounting, perform a brief test run at a safe distance, allowing the wheel to reach full operating speed.

Listen for unusual noises or vibrations, which may indicate improper mounting or a defective wheel.

4. OPERATING INSTRUCTIONS

Follow these guidelines for effective and safe operation of your SAIT 77752 Interleaf Wheel:

- **Material Preparation:** Ensure the workpiece is clean and securely clamped to prevent movement during operation.
- **Application:** Apply light to moderate pressure. Excessive pressure can lead to premature wear, heat buildup, and an inferior finish. Allow the abrasive material to do the work.
- **Movement:** Move the wheel consistently across the workpiece surface to achieve a uniform finish and prevent localized heat buildup. For blending and finishing, use overlapping passes.
- **Direction:** For optimal results, especially when creating linear scratch patterns, maintain a consistent direction of movement.
- **Cooling:** For prolonged use, allow the wheel and workpiece to cool periodically to prevent overheating, which can degrade the abrasive material and affect the workpiece.
- **Specific Uses:**
 - **Removing Heavy Oxidation, Cleaning, Deburring:** Use the Medium grit wheel with consistent pressure and movement to effectively remove surface contaminants and burrs.
 - **Blending and Finishing:** Employ lighter pressure and smooth, overlapping strokes to achieve a uniform blend or satin finish.

5. MAINTENANCE

Proper maintenance extends the life of your interleaf wheel and ensures consistent performance.

- **Cleaning:** After use, gently clean any accumulated debris or residue from the wheel using a stiff brush or compressed air. Avoid using solvents that could damage the abrasive material.
- **Inspection:** Regularly inspect the wheel for wear, damage, or signs of glazing (a smooth, shiny appearance that indicates dulled abrasive grains). A glazed wheel will not cut effectively.
- **Dressing:** If the wheel becomes glazed or loaded with material, it may need dressing to expose fresh abrasive grains. Use a suitable dressing stick or abrasive cleaner designed for this purpose.
- **Storage:** Store the wheel in a dry, cool place away from direct sunlight and humidity. Keep it in its original packaging or a protective container to prevent damage.
- **Disposal:** Dispose of worn or damaged wheels according to local regulations for industrial waste.

6. TROUBLESHOOTING

If you encounter issues during operation, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Poor finish or low cut rate	Wheel is glazed or loaded; Insufficient pressure; Incorrect RPM; Worn wheel	Dress the wheel; Increase pressure slightly; Adjust RPM to optimal range; Replace wheel
Excessive heat buildup	Too much pressure; Insufficient cooling; Incorrect RPM	Reduce pressure; Allow workpiece/wheel to cool; Adjust RPM

Problem	Possible Cause	Solution
Vibration during operation	Improperly mounted wheel; Damaged wheel; Unbalanced wheel	Re-mount wheel securely; Inspect for damage and replace if necessary
Premature wear	Excessive pressure; Incorrect RPM; Using on unsuitable material	Reduce pressure; Adjust RPM; Verify material compatibility

7. SPECIFICATIONS

Attribute	Value
Model Number	77752
Dimensions	3" x 2" x 1/4" (Diameter x Width x Arbor Hole)
Grit Type	Medium (60 or 80 grit coated abrasive material)
Construction Type	Non-Woven Interleaf
Maximum R.P.M.	15,000
Product Weight	1.71 Pounds (approximate)
Manufacturer	Sait
UPC	699053777528

8. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in serious injury or property damage.

- Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses or a face shield, hearing protection, and gloves, when operating abrasive tools.
- Read Tool Manual:** Always read and understand the operating manual for your power tool before attaching and using any abrasive accessory.
- RPM Limits:** Never exceed the maximum R.P.M. specified on the wheel (15,000 R.P.M.). Exceeding this limit can cause the wheel to disintegrate, leading to severe injury.
- Proper Mounting:** Ensure the wheel is securely mounted on the tool's arbor. An improperly mounted wheel can fly off during operation.
- Inspect Before Use:** Before each use, inspect the wheel for any damage, cracks, or signs of wear. Do not use a damaged wheel.
- Workpiece Security:** Always secure the workpiece firmly to prevent it from moving during grinding or finishing operations.
- Ventilation:** Work in a well-ventilated area to avoid inhaling dust particles generated during abrasive operations. Consider using a dust mask or respirator.
- No Side Grinding:** This wheel is designed for face grinding/finishing. Do not use the side of the wheel for grinding unless specifically designed for it.

- **Flammable Materials:** Do not use abrasive wheels near flammable liquids, gases, or materials, as sparks can cause fires or explosions.

9. WARRANTY AND SUPPORT

Specific warranty information for the United Abrasives SAIT 77752 Non-Woven Interleaf Wheel is not provided in this manual. For details regarding product warranty, returns, or technical support, please contact United Abrasives SAIT directly through their official website or customer service channels. Keep your purchase receipt as proof of purchase.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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