

You said: CUTTING WHEEL SOAP

The term "**cutting wheel soap**" usually refers to one of three things depending on the context: an industrial metalworking cutting lubricant, a solid polishing compound used on buffing wheels, or a manual tool used by hobbyists to cut blocks of artisanal soap.

1. Water/Soap-Based Cutting Lubricants

In machining and fabrication, "soap" refers to **water-soluble, paste-like cutting compounds**. [\[1\]](#)

- **Purpose:** These compounds are applied to metal saw blades, drill bits, or cutting wheels to reduce heat, prevent friction, and extend tool life. [\[1, 2, 3, 4\]](#)
- **Benefits:** Unlike petroleum oils, soap-based lubricants keep the workspace clean, prevent oily residue, and easily wash away with water. [\[1\]](#)
- **Common Brands:** Products like [Anchorlube All-Purpose Metalworking Compound](#) are popular choices. Additionally, simple solid [Cutting Lubricant Sticks](#) are often used to slick the face of cutting wheels and saw blades. [\[1, 2\]](#)

2. Polishing and Buffing Soap

If you are working with finishing or grinding wheels, "soap" refers to **abrasive buffing blocks**. [\[1, 2\]](#)

- **Purpose:** Often called luster soap or polishing compound, these solid blocks are pressed directly against a spinning buffing or flap wheel. [\[1, 2\]](#)
- **Application:** The heat of the spinning wheel melts a thin layer of the "soap" onto the abrasive material to cut through oxidation, smooth out grinding lines, and create a mirror finish on metals like stainless steel and aluminum. [\[1, 2\]](#)

3. Wire Wheel Soap Cutters [\[1\]](#)

In artisanal soap-making, a cutting wheel or multi-bar cutter is a mechanical assembly used to slice large soap loaves. [\[1, 2, 3\]](#)

- **Purpose:** These tools use high-tensile steel wires tensioned across a frame or wheel mechanism.
- **Application:** They allow soap makers to evenly partition large blocks of soap into consumer-sized bars with uniform dimensions.