

You said: NON WOVEN WHEEL

A **non-woven abrasive wheel** consists of a three-dimensional web of nylon fibres impregnated with abrasive grains (like aluminium oxide or silicon carbide) and bound together with synthetic resins. Unlike traditional bonded grinding wheels, non-woven wheels are **highly flexible, pliable, and self-sharpening**, ensuring a continuous supply of new abrasive grain as the outer fibres wear down. They are primarily used for **deburring, cleaning, rust removal, surface conditioning, and satin finishing** on materials such as stainless steel, aluminium, wood, and plastics. [[1](#), [2](#), [3](#), [4](#), [5](#)]

Types of Non-Woven Wheels

- **Convolute Wheels:** Made by wrapping non-woven material around a central core; they must always rotate in the unidirectional arrow indicated on the wheel side. [[1](#), [2](#)]
- **Unitized Wheels:** Made by compressing layers of web material together; they can run bi-directionally and are ideal for smaller, more precise applications. [[1](#), [2](#), [3](#), [4](#), [5](#)]
- **Combi/Flap Wheels:** Interspersed with alternate layers of standard sandpaper flap cloth and non-woven material for heavier stock removal combined with a fine finish. [[1](#), [2](#)]