

A **flap disc** is a versatile abrasive power tool accessory designed for an angle grinder. It features overlapping coated abrasive cloth "flaps" radiating from a central hub, which continually wear away during use to expose fresh, sharp grit. This unique design allows it to **grind and finish surfaces simultaneously**, saving time by eliminating the need to switch between grinding wheels and fiber sanding discs. [[1](#), [2](#), [3](#), [4](#), [5](#)]

Key Applications

- **Material Removal:** Heavy-duty grinding, edge chamfering, and beveling.
 - **Weld Blending:** Quickly cutting down weld beads and smoothing seams.
 - **Surface Prep:** Removing rust, paint, and scale from steel or sheet metal.
 - **Deflashing & Deburring:** Cleaning up sharp edges on cast iron and machined components. [[1](#), [2](#), [3](#), [4](#), [5](#)]
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Key Specifications to Consider

1. Disc Shape / Type

- **Type 27 (Flat):** Best for flat surfaces, blending, and smooth finishing. Operated at a lower angle of **0° to 15°**.
- **Type 29 (Conical/Angled):** Best for aggressive material removal, contours, and complex corners. Operated at an angle of **15° to 25°**. [[1](#), [2](#), [4](#), [5](#)]

2. Grit Size Selection

- **Coarse (36 to 40 Grit):** Heavy stock removal and deep weld grinding.
- **Medium (60 to 80 Grit):** General blending, deburring, and surface cleaning.
- **Fine (120 Grit and higher):** Final surface refining and preparation before painting. [[1](#), [2](#), [3](#), [4](#), [5](#), [6](#), [7](#)]

3. Abrasive Material

- **Aluminium Oxide:** Economical; ideal for smaller DIY projects on mild steel and wood.
- **Zirconia Alumina:** Durable and fast-cutting; best for heavy-duty steel and stainless steel fabrication.
- **Ceramic Alumina:** Premium performance; self-sharpening design offers the longest lifespan and fastest material removal rate on tough alloys. [[1](#), [2](#), [3](#), [4](#), [5](#)]