

5 STEPS TO SAFETY

When using reinforced abrasive cutting and grinding wheels

Reinforced cutting and grinding wheels are generally used on angle grinders and other handheld/ fixed machines that run at speeds from 80 to 100m/s (188 to 360km/hr). Wheels running at these very high operating speeds can cause serious injuries if they are not safe and/or used correctly. A lot of injuries are caused when airborne metal particles from the wheels become lodged in the operator's eye, however more serious injuries are from angle grinder kick-back, where the disc is thrust back violently towards the operator.

To avoid personal and bystander injury, the appropriate precautions must be taken. It is for this reason we have outlined 5 key safety steps to prevent injuries while using reinforced abrasive cutting and grinding wheels.

1. Ensure the correct product is used for the relevant application:

- Wheel must be undamaged
- Wheel diameter must be suitable for machine
- Do not use wheels worn down from a larger diameter
- Bore diameter must match the machine
- Machine speed must not exceed wheel speed
- Ensure the wheel selected suits the application (Metal, SS, Masonry etc.)
- Ensure the correct wheel type is used



Type 41 - For cutting only

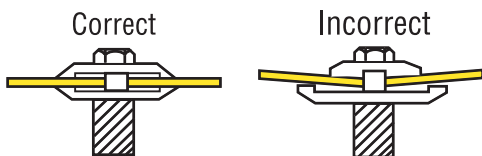


Type 42 - For cutting only

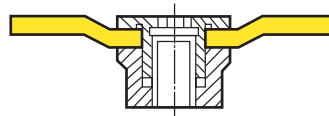


Type 27 - For grinding only

2. Ensure correct flanges are fitted and mount the wheel correctly and securely:



Correct
Type 41 C/O wheel.
Flange diam. must be 1/3 wheel diameter.



Type 27 & 42 D/C wheel
D/C wheels < 180mm diam.



Type 27 & 42 D/C wheel
D/C wheels ≥ 180mm diam.

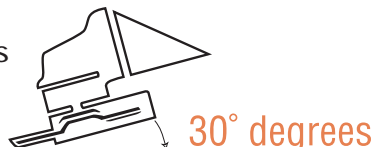
3. Ensure the machine guard is safe for use (check AS1788.2 safety standard).

4. Ensure that appropriate PPE is worn:



5. Ensure wheels are used correctly:

- Use recommended grinding angle of 30° degrees
- Cut/grind in a smooth steady action
- Do not bump the wheel onto the workpiece



Flexovit understand that operator safety is integral while using reinforced cutting and grinding wheels. Flexovit reinforced abrasive products are made at Flexovit's ISO accredited state-of-the-art production facility and comply with the highest Australian and International safety standards, including **AS1788.1/2 - 1987**: Australian Safety Standards, **EN12413**: Safety requirements for bonded abrasive products and **oSa**: Organisation for Safety of Abrasives.

