



- Developed for high volume serial cutting
- More cuts per wheel = lower cost per cut
- Higher feed speed

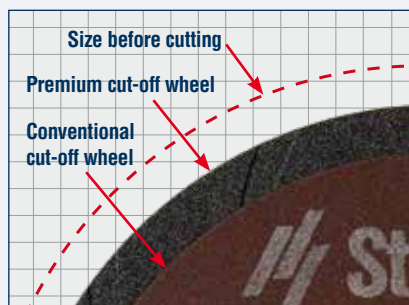


Presenting the latest in cutting technology

Struers' Premium cut-off wheels are developed for cutting of hard metals. The abrasive composition, surface pattern and wheel thickness of Premium wheels have been optimized for high-volume serial cutting. It has resulted in significant advantages, such as 60% higher yields and 10% higher feed speeds, compared to conventional abrasive cut-off wheel for metallographic wet cutting.

Improved yield and speed

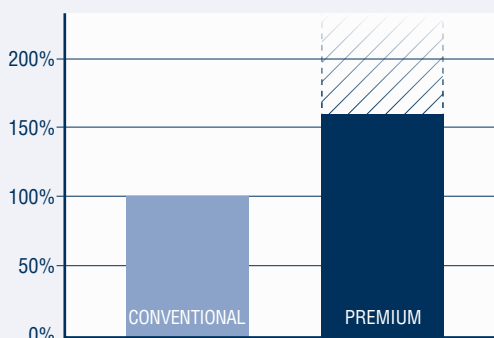
Materialographic cutting of very hard materials requires frequent wheel changes. Increased speed threatens to induce thermal damage. Struers' Premium cut-off wheels let you decide whether you want to do less wheel changes or use the increased performance to complete cutting faster. Without further deformations and burns. In any case, your total turnaround time for a typical serial cut sequence can be reduced significantly.



*Wear on Struers conventional wheel for hard ferrous metals vs. the equivalent premium wheel.***

Improved efficiency

The advantages of Premium wheels stand out. The unique combination of hard abrasives, thinness, spiral-shaped surface pattern and a varying density across the wheel surface have resulted in excellent abrasive properties. It has resulted in direct, positive impact on cuts per wheel and turnaround time.



Increased lifetime

Adding special, ultra-hard abrasives* to the Premium cut-off wheels, the lifetime and the cutting properties are improved dramatically – at least 60% over conventional cut-off wheels.

Two variants are available: The 58A for hard and the 68A for very hard ferrous metals. The 68A has more and smaller abrasives available on the surface, and is therefore better suited for the hardest steels.

Intelligent cut-off wheels

Like other Struers cut-off wheels, Premium cut-off wheels have a built-in compensation to changing wear characteristics throughout its life. The abrasive density varies across the wheel radius – with increasing density towards the center of the wheel. This means that the cutting performance of the wheel remains constant even as it wears to a smaller diameter. This results in more constant wear characteristics, which can be converted into less wear and better control of the cut.

SPECIFICATIONS

	Cat.no.
Premium cut-off wheel 58A35 For cutting of hard ferrous metals (HV 300-800). With spiral pattern. Aluminium oxide. Resin bond. 350 mm (14") dia. x 2.2 mm x 32 mm dia. 10 pcs.	40009172
Premium cut-off wheel 68A35 For cutting of very hard ferrous metals (>HV400). With spiral pattern. Aluminium oxide. Resin bond. 350 mm (14") dia. x 2.2 mm x 32 mm dia. 10 pcs.	40009173
Premium cut-off wheel 58A43 For cutting of hard ferrous metals (HV 450-600). With spiral pattern. Aluminium oxide. Resin bond. 432 mm (17") dia. x 2.7 mm x 32 mm dia. 5 pcs.	40009174
Premium cut-off wheel 68A43 For cutting of very hard ferrous metals (>HV 600). With spiral pattern. Aluminium oxide. Resin bond. 432 mm (17") dia. x 2.7 mm x 32 mm dia. 5 pcs.	40009175

**) Visually, there is no difference between a cut made by a conventional metallography wheel and a Premium wheel. However, the more aggressive abrasives on sides of Premium cut-off wheel may cause a slightly increased roughness on the cut.*

****) Test of conventional Struers cut-off wheel 50A35 vs Premium 58A35 – both making 3 cuts on Ø 80mm hardened tool steel (60 HRC).*

Struers' products are subject to constant product development. Therefore, we reserve the right to introduce changes in our products without notice.

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