

PLANTEX ®

Hightech-Compound

**The first flap disc in the world
made of sustainable hemp fi-
bres bound with polypropylene.**

The
Quantum Leap
in

flap disc technology

More information: www.eisenblaetter.de



EISENBLÄTTER
High tech grinding and polishing equipment

PLANTEX®

Hightech-Compound

→ Considerably higher material abrasion and much longer service life

- Now the **complete disc can be used** easily due to the **self-trimming** (cutting) properties of the hemp compound. The abrading cloth can be used **down to the last millimetre!**
- New developed **100% pure zirconium cloth** with additional cooling agents offers new range of applications.
- The **vibration-damping** and elastic hemp compound material adapts more easily to the surface of the workpiece, dissipates heat better through the hollow fibres of the hemp (**heat absorbent**), the grinding process is cooler, the workpiece **does not glaze as quickly** and the abrasive cloth does not „burn“.



→ Protects resources and the environment

- Completely physiologically safe, hemp fibre and polypropylene **do not pose any health risks.**
- **Simple disposal** of the remainder of the disc, for example by burning with almost no residue (the only combustion product is approx. 1% carbon).
- Contains no mineral fibres.
- The disc is resistant to most chemicals (long storage life).



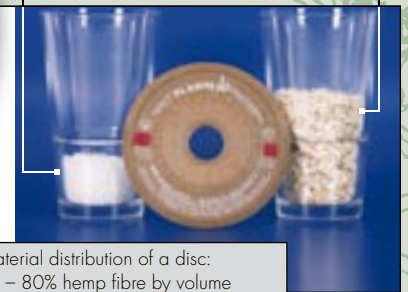
World novelty



→ PLANTEX® and PLANTEX® COOLTOP® – the first flap discs in the world made of sustainable hemp fibres* bound with polypropylene.

Bound with environment friendly polypropylene

Sustainable hemp fibres*



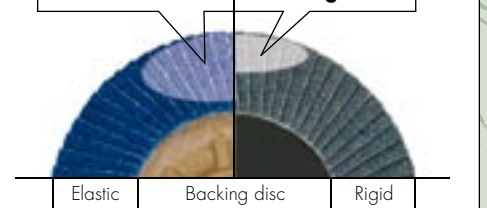
→ Material distribution of a disc: 70 – 80% hemp fibre by volume

→ Because of its flexibility, a much larger surface area of the grinding disc is in contact with the workpiece so that it can abrade more material (see photographs on the right).



Abrasion area on an **elastic disc**

Abrasion area on a **rigid disc**

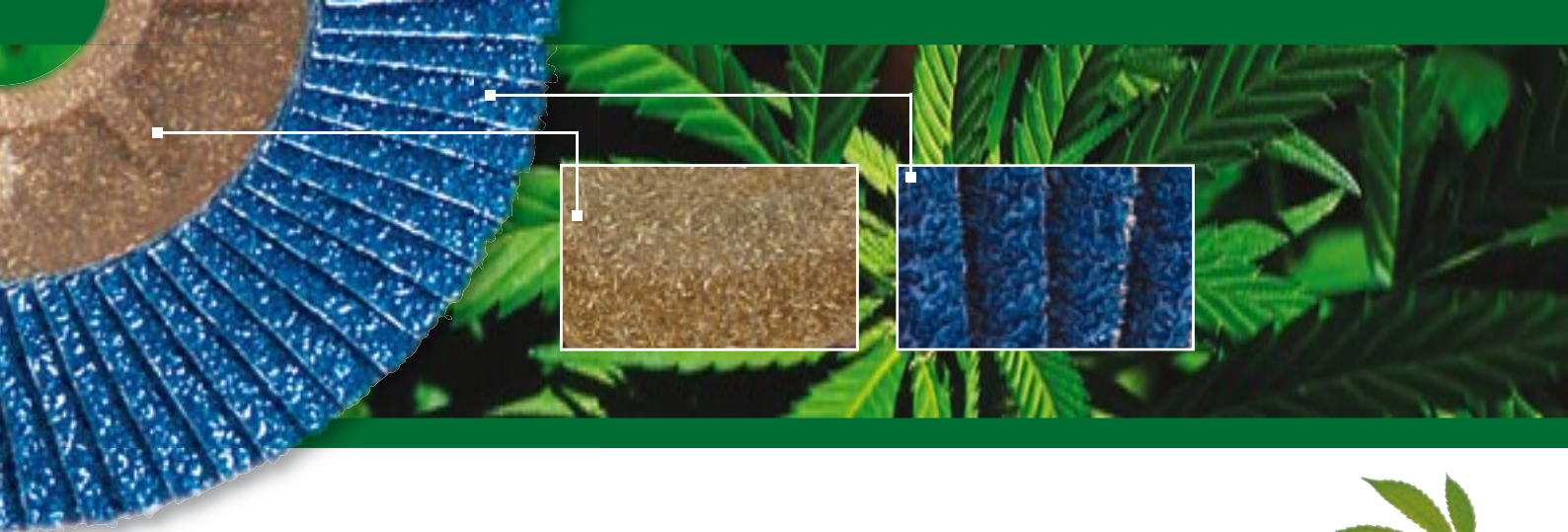


Elastic

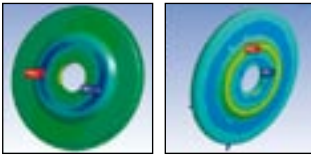
Backing disc

Rigid

* Made of legal hemp varieties with considerably reduced THC.



→ Very safe

- **Approved for 80 m/sec under DIN EN 13743 and approved by the MPA (Material Testing Institute) in Hanover and by the BGIA (Professional Association Institute for Health and Safety).**
- The high strength of the high tech compound backing disc is achieved by the special, **patented treatment (IMPACT process)**  of the hemp fibres. The PLANTEX® backing disc has also been designed and improved using the finite element method (FEM). That ensures **excellent strength and safety** with minimum material use.
- The unique, **globally patented Eisenblätter** gluing process allows the entire production process to be carried out at room temperature, with **no hardening processes in tempering furnaces**. This means that the abrasive cloth is not subjected to thermal stress and does not dry, which results in increased abrading performance and extended life. The gluing layer has **springing, damping elasticity** and reduces noise emissions during the abrasion work.

→ Grind down to the last millimetre

- The backing disc **trims itself during the grinding process** or can be trimmed easily and safely.
- The **greater use saves you hard cash.**

→ Backing disc made of hemp fibre high tech compound

- The **first flap disc in the world** to be made of sustainable hemp fibres bound with polypropylene.
- Sustainable raw materials such as hemp fibres **counteract the greenhouse effect** and produce a **CO₂ energy balance**.

PLANTEX® COOL TOP®

INOX



The PLANTEX® COOL TOP® high tech compound has been **specially developed for processing stainless steel**. A new abrasive cloth with an additional top-size coating improves the abrasion capacity and service life whilst also providing an additional cooling effect.

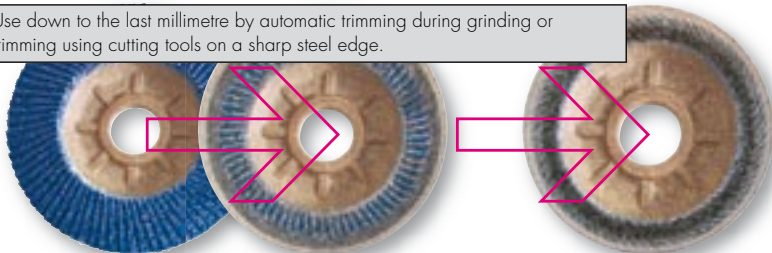
Technical data for PLANTEX® and PLANTEX® COOL TOP®

Dimensions	diameters 100, 115, 125 and 178 mm
Maximum speed	13,200 rpm (for 115 mm diam. discs)
Ideal speed	5,000 to 8,000 rpm
Approval	80 m/sec DIN EN 13743
Grits	40, 60, 80, 120 (PLANTEX®)
	40, 60 (PLANTEX® COOLTOP®)

→ What trimming using cutting tools produces – soft, harmless chips that can be disposed of as domestic waste (smell is similar to wood chips).



→ Use down to the last millimetre by automatic trimming during grinding or trimming using cutting tools on a sharp steel edge.





TRIMTEX®

Hightech-Compound

Self-trimming high tech compound backing disc made of sustainable hemp fibres. The solution for weld seams and spots.

The
World novelty

Multifunctional flap disc

More information: www.eisenblaetter.de



EISENBLÄTTER
High tech grinding and polishing equipment

Self-trimming high tech compound backing disc. The solution for welded seams and spots.

New disc for multi-functional grinding in corners, flanges and on flat surfaces. A large number of perpendicular grinding flaps (approximately twice as many as on conventional flap discs) with small gaps between them mean that for the first time it is possible to combine different operations!

This means that the number of operations can be reduced, thus drastically cutting working time and tool costs.

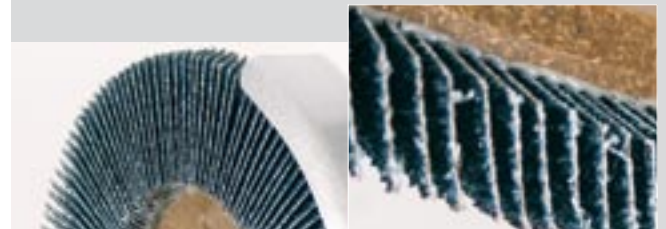
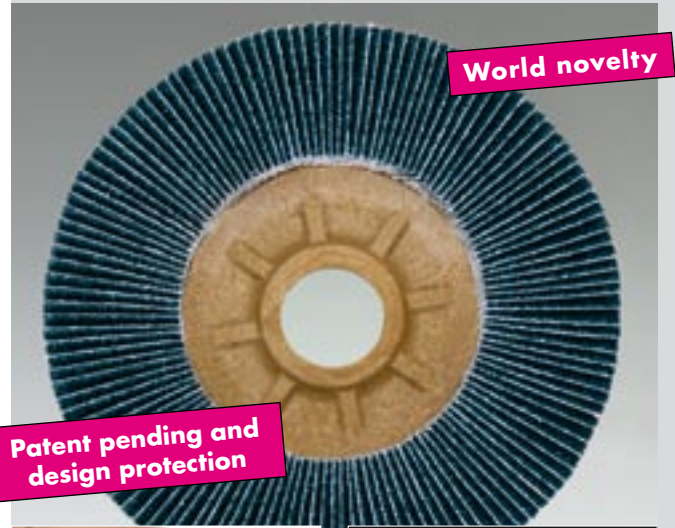
→ Benefits:

- **Extremely large number of flaps** make for a very long service life.
- **Ideal in corners and on flanges** for smoothing welds (produces clean "soft" transitions for a perfect look).
- **Multiple function:** If the **contact pressure is increased** the flaps will compress to form a package that is as **aggressive** as conventional flap discs. If the **contact pressure is low** the various flaps create a spring effect – ideal **for finish grinding, finishing and deburring**.
- **Backing disc is trimmed automatically** as you grind or its outer edge can simply be cut.
- The new, open construction creates a **high cooling effect** that drastically reduces the grinding temperatures on the workpiece and on the grinding disc.
- The **new active agent compositions** in the abrasive cloth also reduces the surface temperatures on the workpiece.
- **100% pure zirconium** guarantees perfect results on steel and stainless steel.
- The **flat design** of the backing disc means that even awkward places can be reached.
- The **spring-effect arrangement of the flaps** actively prevents grinding damage on the workpiece.
- **Automatically adjusts to corner shapes!**

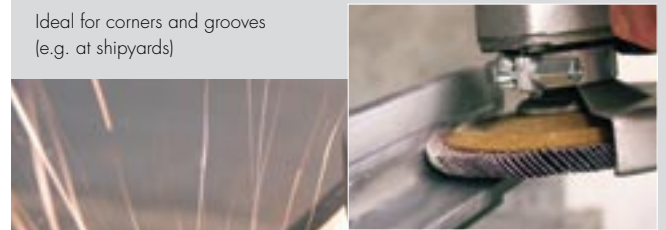
Ideal for speed-controlled angle grinders, such as the VARILEX®WSF 1600 Professional.

Technical data for TRIMTEX®

Dimensions	diameter 125 mm (other diameters being prepared)
Maximum speed	9,700 rpm for 125 mm diameter
Ideal speed	5,000 to 7,000 rpm
Approval	63 m/sec DIN EN 13743
Grits	40, 60, 80



Ideal for corners and grooves
(e.g. at shipyards)



NEW!

Never has changing a disc been so quick and efficient!

Thanks to the new **EASY-LOCK clamping nut** the abrasives on an angle grinder can now be changed in seconds without requiring any tools or opening a clamp, etc.

The **EASY-LOCK clamping nut** will

work with any abrasive with a hemp or ABS backing disc. That means you can change any Eisenblätter abrasive for an angle grinder in a matter of seconds using this uniquely simple solution. The clamping collar shaped on the top of the

EASY-LOCK can secure flap discs and abrasives with a "thicker" backing disc securely as well as centring them. "Thin" abrasives such as cutting discs, etc. can simply be secure using the reverse of the **EASY-LOCK clamping nut**!



1.



2.



3.

1. Secure the disc loosely by hand using the EASY-LOCK clamping nut.
2. Press the spindle lock and tighten the disc by turning it clockwise by hand. That's all there is to it!
3. To release the disc press the spindle lock and turn the disc anti-clockwise by hand.

Our disc range:

→ Flap grinding discs:

**Steel/INOX**

MAGNUM® COOL TOP® 5

For maximum performance.

**Steel/INOX**

MAGNUM® COOL TOP® CORNER/FILLET WELD

For abrading welds in corners, edges and fillet welds.

**INOX**

MAGNUM® COOL TOP® INOX

For abrading stainless steel. No smearing on INOX.

**Steel/INOX**

ZIRKOTEX®-Nylon ZIRKOTEX®-Gold

Flat flap disc with high cooling effect.

**Steel, cast**

BLUE SHARK® elastic

Elastic backing disc with no glass fibre. For smooth, flat surfaces. Ideal for abrading sheet metal.

**Aluminium**

TIGER SHARK® elastic and Kangoo-ALU-FIX OIL

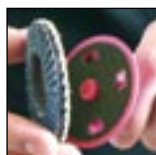
Elastic flap disc especially for aluminium.

→ Grinding disc quick changing system:



FIX HOOK & LOOP SYSTEM

Environmentally friendly backing disc made of natural materials. Ingenious quick changing system with 100% concentricity using a centring pin.

PATENTED!

MINI-FIX HOOK & LOOP SYSTEM

Ingenious quick changing system with compatible range of abrasives. Highly elastic for top quality results.

→ Cleaning discs:



MAGNUM® CLEAN MAGNUM® CLEAN PLUS

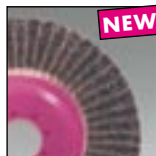
Elastic cleaning disc for the pore-deep cleaning (sand-blasting effect).



CLEAN DISC MCD

For use with a drill.

→ Fleece discs:

**NEW!**

MAGNUM® TOPMIX

Higher abrading capacity, fine finish. For removing deep scratches on INOX, steel and non-ferrous metals.



MAGNUM® FLEECE TOP

Made of foamed, compressed grit interspersed fleece.



POLY-MAGIC-WHEEL

A mirror finish in corners without polishing additives (dry polishing).

→ Grinding and cutting discs:

**Steel/INOX**

MAGNUM® Flexo grinding disc

Universal disc that can be used in all areas of metalworking.

**Steel/INOX**

MAGNUM® Cut cutting disc

Universal disc for all cutting work on steel, INOX and non-ferrous metals.

**Steel/INOX**

MAGNUM® Finecut cutting disc

Special cutting disc specially design for thin sheets of INOX and steel.

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