

# PLANTEX®

High-tech Compound

Steel/Stainless Steel/Aluminum

A quantum leap in flap disc technology.

## Provides:

- ✓ Higher Productivity
- ✓ Lower Cost
- ✓ Increased Safety

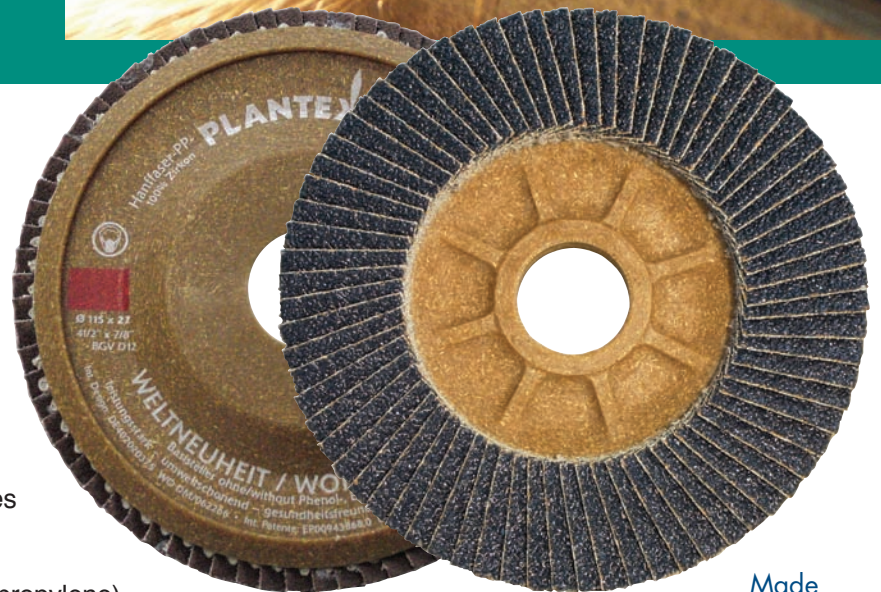


PLANTEX® offers important advances in grinding performance, service life, protection for the environment and personal safety.

The development of the new PLANTEX® high-tech compound has resulted in the production of the first flap discs in the world with a backing plate made of natural hemp, with polypropylene used to bind it. In addition to excellent material abrasion and a long service life, the discs offer maximum operator safety, protection of natural resources and environmental friendliness.

This new composite material (hemp and polypropylene) minimizes pollution from production to waste disposal. Even the polypropylene binding material combusts to approximately 1% carbon when disposed of by thermal methods, producing almost zero residue. Polypropylene is physiologically safe and is used in automotive engineering (interior) and medical technology for common items such as syringes, cannulae and infusion bottles. As a result of its fiber structure, the hemp fiber offers excellent tearing strength values. The superior strength values of this high-tech compound are achieved through a patented new treatment ("impact method") for hemp fibers.

Hemp fiber high-tech compound is an almost ideal base material for flap disc backing plates – it is elastic, heat-absorbent (for low grinding temperatures), very easy to trim, safe to use and easy to dispose of. The cavities of the hemp fiber structure, in conjunction with polypropylene, have a highly insulating, damping and noise-reducing effect, thus enhancing the safety features of the discs.



Made in Germany

**PLANTEX®**  
Hightech-Compound

**PATENTED!**



### Safer working conditions

- No fiberglass, no mineral fibers, no epoxy resin
- Easy to trim, safe to use, easy to dispose of

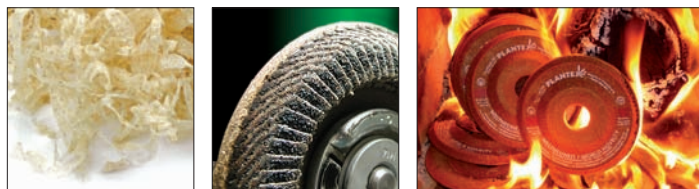
### Earth friendly

- Minimizes pollution, from production to disposal
- Hemp plant counteracts greenhouse effect

### Competitively priced

- Lower cost of production
- Superior service life; 100% utilization

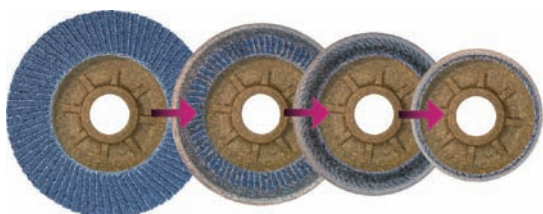
The high-tech compound material used for the PLANTEX® flap disc is perfectly safe. The backing plate is trimmed automatically during the grinding process or can be trimmed manually using cutting tools. The CO<sub>2</sub> and energy balance are also impressive. During its growth, 1 ton of hemp converts approximately 2 tons of carbon dioxide into oxygen by means of photosynthesis. Hemp therefore plays a beneficial role in counteracting the greenhouse effect.



Trimming with cutting tools produces soft, harmless chips that can be disposed of as domestic waste (smell is similar to wood chips). Thermal disposal incinerates without residue, apart from 1% carbon.

### Grinding down to the last fraction of an inch

The backing plate used on PLANTEX® flap discs reduces in diameter automatically during grinding. It can also be trimmed with cutting tools, a process that is simple and straightforward. The PLANTEX® flap disc can be used down to the last flap of the abrading fabric – and saves you money in the process!



**100% Service Life!**

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

#### PLANTEX® Specifications

<b>Dimensions</b>	Diameter: 4", 4-1/2", 5", 7"
<b>Max. speed</b>	13,300 RPM for 4-1/2" diameter
<b>Ideal speed</b>	5000 to 8000 RPM
<b>Complies with</b>	ANSI B7.1, 260 ft./sec. DIN EN 13743
<b>Grits</b>	40, 60, 80, 120
<b>Arbor size</b>	5/8" or 7/8"

Ordering information follows on page 20.

## PLANTEX® – features to convince everybody!

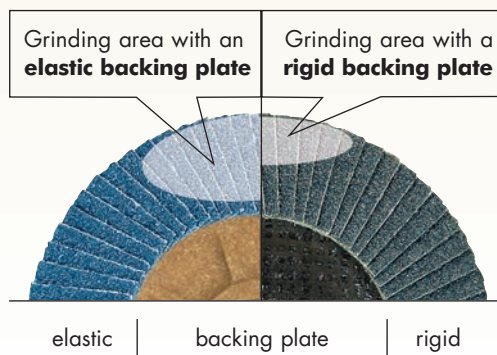


- Superior material abrasion and service life due to the discs' springy elasticity and 100% pure zirconium.
- Self-trimming and very easy to cut – the backing plate reduces in size automatically during the grinding process.
- Adjusts better to the surface of the workpiece during grinding.
- Absorbs vibration and noise due to its high fiber content.
- Heat-absorbent high-tech compound (with hollow fiber insulation) reduces the temperature during grinding.
- High strength, yet lightweight.
- High shape stability while maintaining elasticity.
- High-tech compound is resistant to most chemicals.
- Made of a sustainable raw material – protects valuable natural resources.
- The backing plate can be disposed of safely and easily (polypropylene binding combusts to approx. 1% carbon).
- Hemp provides good energy and CO<sub>2</sub> balance.
- Outstanding value: PLANTEX® costs no more than a medium-quality conventional flap disc.

## The clever ones give way!



The fiber substrate of the PLANTEX® high-tech compound gives it absorbent, spring-like properties that enhance grinding performance. This elasticity provides a greater contact surface area with the workpiece (more grit is used) that results in more material being abraded. The material removal capacity is therefore higher. The larger contact surface area also dissipates more heat, making the grinding work cooler – the workpiece does not suffer smearing and the abrasive fabric does not burn.





**STAINLESS STEEL**

# PLANTEX® COOL TOP®

Flap disc with cool performance for grinding stainless steel.

The PLANTEX® high-tech compound is becoming the standard flap disc for many companies. It is fiberglass free and provides excellent performance and service life. PLANTEX® also protects the environment and precious resources.

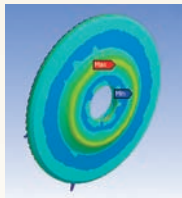
**The result:**

**The PLANTEX® COOL TOP® high-tech compound has been specifically developed for grinding stainless steel.**

A new abrasive fabric with additional top-size coating improves grinding performance and service life and also provides additional cooling.

**PLANTEX® COOL TOP® Specifications**

<b>Dimensions</b>	Diameter: 4", 4-1/2", 5", 7"
<b>Max. speed</b>	13,300 RPM for 4-1/2" diameter
<b>Ideal speed</b>	5000 to 8000 RPM
<b>Complies with</b>	ANSI B7.1, 260 ft./sec. DIN EN 13743
<b>Grits</b>	40, 60 (for finer grits, use PLANTEX 80 and 120)
<b>Arbor size</b>	5/8" or 7/8"



**Strength & safety with FEM**

The backing plate for the PLANTEX® high-tech compound is calculated using the finite element method (FEM). That ensures that it provides the optimal strength and safety properties, while minimizing material

use. Like all flap discs from CS Unitec, PLANTEX® flap discs are approved for 260 ft./sec. to DIN EN 13743 and have been approved by the MPA (Material Testing Institute) in Hanover and by the BGIA (Professional Association Institute for Industrial Safety). PLANTEX® additionally complies with ANSI standard B7.1.

**Easy Disc Changeover - No Wrenches or Hubs Required!**

Grinding discs can be changed in seconds, without tools, using the 5/8"-11 **EASY-LOCK SPEED NUT**. It is easily tightened by hand and eliminates the need for wrenches or expensive hubs. **Part Number: 65008-1**



## PLANTEX® Disc Ordering Information

**PLANTEX® Ordering Information**

Part No.	Size (dia. x width x arbor)	Grit	Max. Speed	Quantity
93514	4" x 0.63" x 5/8"	40	15,000 RPM	10 pack
93516	4" x 0.63" x 5/8"	60	15,000 RPM	10 pack
93518	4" x 0.63" x 5/8"	80	15,000 RPM	10 pack
93519	4" x 0.63" x 5/8"	120	15,000 RPM	10 pack
93524	4-1/2" x 0.87" x 7/8"	40	13,300 RPM	10 pack
93526	4-1/2" x 0.87" x 7/8"	60	13,300 RPM	10 pack
93528	4-1/2" x 0.87" x 7/8"	80	13,300 RPM	10 pack
93529	4-1/2" x 0.87" x 7/8"	120	13,300 RPM	10 pack
93534	5" x 0.87" x 7/8"	40	12,200 RPM	10 pack
93536	5" x 0.87" x 7/8"	60	12,200 RPM	10 pack
93538	5" x 0.87" x 7/8"	80	12,200 RPM	10 pack
93539	5" x 0.87" x 7/8"	120	12,200 RPM	10 pack
93544	7" x 0.87" x 7/8"	40	8600 RPM	10 pack
93546	7" x 0.87" x 7/8"	60	8600 RPM	10 pack
93548	7" x 0.87" x 7/8"	80	8600 RPM	10 pack
93549	7" x 0.87" x 7/8"	120	8600 RPM	10 pack

**PLANTEX® COOL TOP® Ordering Information**

Part No.	Size (dia. x width x arbor)	Grit	Max. Speed	Quantity
93614	4" x 0.63" x 5/8"	40	15,000 RPM	10 pack
93616	4" x 0.63" x 5/8"	60	15,000 RPM	10 pack
93624	4-1/2" x 0.87" x 7/8"	40	13,300 RPM	10 pack
93626	4-1/2" x 0.87" x 7/8"	60	13,300 RPM	10 pack
93634	5" x 0.87" x 7/8"	40	12,200 RPM	10 pack
93636	5" x 0.87" x 7/8"	60	12,200 RPM	10 pack
93644	7" x 0.87" x 7/8"	40	8600 RPM	10 pack
93646	7" x 0.87" x 7/8"	60	8600 RPM	10 pack



**Hightech-Compound**