

# POLIFAN®-STRONG flap discs

The very best in aggressiveness and tool life



**ZIRKON-STRONG**  
for steel

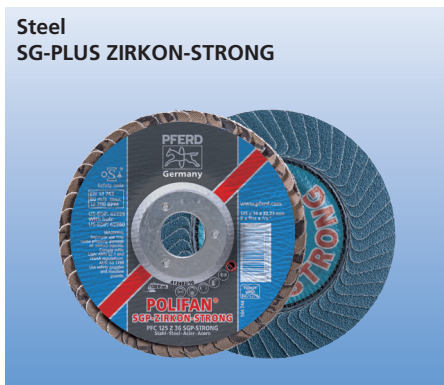
**CO-STRONG-FREEZE**  
for stainless steel (INOX)

**TRUST BLUE**

- Consistent, highly-aggressive removal rates right up to the last abrasive grain
- Patented design, with long, compact flaps allows for maximum stock removal and long service life
- Available in ceramic oxide grain for ultra-cool grinding

# POLIFAN®-STRONG flap discs

Conical (type 29) – Special line SG-PLUS



**POLIFAN®-STRONG** is a unique PFERD innovation offering extended service life and maximum stock removal rates for demanding grinding work.

The patented design of POLIFAN®-STRONG, with its long, compact flaps, introduces a whole new dimension in material removal.

- Fast grinding through constant aggressiveness to the last abrasive grain.
- Highest economic efficiency through greater performance per time unit, less wear on the disc and reduced set-up times.
- The greatest possible stock removal.
- Extremely long service life.

**Abrasive: Zirconia alumina Z**

**Workpiece materials**

Steel

**Applications**

Surface grinding, weld grinding, blending, chamfering, deburring

**Recommendations for use**

- **Grit sizes 36** ideal for high stock removal, such as when working on weld seams.
- **Grit size 50** ideal for work on edges, such as chamfering, or for attaining fine surfaces.
- Zirconia alumina grain is a high-performance abrasive delivering optimal performance on high-powered angle grinders (please refer to the table on page 4: 4-1/2" electric angle grinder = 8+ amps).

**PFERDERGONOMICS®**






**PFERDEFFICIENCY®**



**PFERD specification number**

SG-PLUS Z-STRONG

Diameter [Inches]	Unthreaded arbor hole			Threaded arbor hole			Max. RPM	
	Bore [Inches]	Grit and EDP number		Thread	Grit and EDP number			
		36	50		36	50		
<b>Conical (PFC – type 29)</b> 								
4-1/2	7/8	62945	62947	5/8-11	62950	62952	13,300	10
5	7/8	62955	62957	5/8-11	62960	62962	12,200	10
7	7/8	62975	62977	5/8-11	62980	62982	8,500	10



**PFERDMEDIA**  
To see it in action, please visit [pferdusa.com/vstrong](http://pferdusa.com/vstrong)





# POLIFAN®-STRONG-FREEZE flap discs

Conical (type 29) – Special line SG-PLUS

**POLIFAN®-STRONG-FREEZE** is a premium-performance flap disc that delivers maximum low-temperature stock removal and outstanding service life for demanding grinding tasks.

The innovative abrasive with ceramic oxide grain guarantees ultra-cool grinding on materials which do not conduct heat well.

POLIFAN®-STRONG-FREEZE delivers unparalleled cool grinding performance. This is particularly beneficial for work on materials with poor thermal conductivity, such as stainless steel (INOX).

The usual sparks are reduced to a minimum due to the unique structure of the abrasive material. The risk of damage to stainless steel workpieces due to hot flying sparks is drastically reduced.

**Abrasive: Ceramic oxide CO plus special coolant**

## Workpiece materials

Stainless steel (INOX), nickel- and cobalt-based alloys (aircraft engine and turbine construction), titanium, Inconel®, Hastelloy®



**CONTAMINATION FREE  
RATED FOR STAINLESS STEEL (INOX)**

## Applications

Surface grinding, weld grinding, blending

## Recommendation for use

Achieves best results with high-powered angle grinders (please refer to the table on page 4: 4-1/2" electric angle grinder = 8+ amps).

## PFERDERGONOMICS®



## PFERDEFFICIENCY®



**PFERD specification number**  
CO SG-PLUS-STRONG-FREEZE

## INOX SG-PLUS CO-STRONG-FREEZE



Diameter [Inches]	Unthreaded arbor hole			Threaded arbor hole			Max. RPM	
	Bore [Inches]	Grit and EDP number		Thread	Grit and EDP number			
		36	50		36	50		
<b>Conical (PFC – type 29)</b>								
4-1/2	7/8	62946	62948	5/8-11	62951	62953	13,300	10
5	7/8	62956	62958	5/8-11	62961	62963	12,200	10
7	7/8	62976	62978	5/8-11	62981	62983	8,500	10



## PFERDMEDIA

To see it in action, please visit [pferdusa.com/vfreeze](http://pferdusa.com/vfreeze)

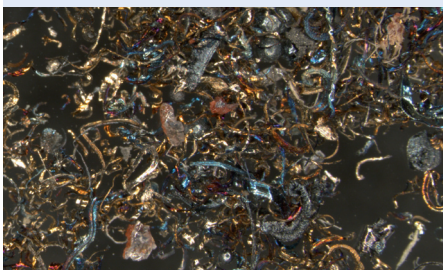
## Note

During initial use of a POLIFAN®-STRONG-FREEZE disc, the flaps exhibit an unusual wear pattern after just a few seconds. The highly effective fillers form a shiny cooling film on the flaps (While this may look similar to glazing, please note that this is normal). This provides the basis

for unprecedented cooling, aggressiveness, and service life.

The shape and colour of the chips generated with the POLIFAN®-STRONG-FREEZE attest to the extremely low temperatures during the grinding process.

## Conventional flap disc



Chips produced with conventional grinding wheels or flap discs. Blue colouration due to overheating.

## POLIFAN®-STRONG-FREEZE

### OK! FREEZE EFFECT



Typical wear pattern with its characteristically shiny cooling film (not glazing!).



Long chips generated with the POLIFAN®-STRONG-FREEZE. No blue colouration due to low thermal loads.



Subject to technical modifications.

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