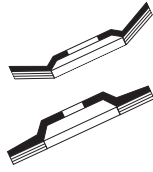


FLAP DISCS FOR ANGLE GRINDERS

PREMIUM ★★★ Flap discs	50
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STANDARD ★★ SOFT JOB Flap discs	56
BASIC ★ Flap discs	57

TYROLIT



27 / 28 A / N / S



FLAP DISCS

APPLICATIONS

The flap discs are suitable for grinding work, deburring, trimming, bevelling, cleaning and surface improvement on metals of any kind.

CONSUMER GROUPS

- Repair workshops, locksmith's shops, forging workshops, shipbuilding, automotive and supplier industry
- Engineering and container construction, reactor construction, foundries, maintenance

The Product

STRUCTURE

Coated abrasive cloth flaps are fixed onto a support plate made of either fibreglass or plastic.

This allows new, aggressive abrasive grains to be exposed again and again during the grinding process.

The angled shape (27) is used primarily for surface grinding. Here, for practical purposes, the grinding angle (= setting angle) is built into the wheel.

The straight shape (28) is used both for edge grinding (to produce workpiece edges) and for surface grinding.

The flap structure promotes the removal of the cut-off material and prevents clogging.

- A = regular aluminium oxide • ZA = zirconium aluminium oxide

STANDARD SEGMENTATION (shapes, dimensions)

Shape:	D [mm]	H [mm]	Grain sizes:	
27ELA	100	16.00	40	Pre-grinding
or	115	22.23	60	Semi-finish grinding
28ELA	125	22.23	80	Semi-finish grinding
	178	22.23	120	Finish grinding

REQUIREMENTS

A flap disc is expected to have a high stock removal rate and produce a good surface quality on the workpiece.

Quality

- Good stock removal
- High surface quality
- Suitable for various materials
- No clogging of the tool (flap structure)
- High utilisation of the grinding flaps due to fibreglass core with self-resetting wear

Application Tips

- Oscillating grinding movement and alternating setting angle (= grinding angle) allow optimum utilisation of the flap disc.
- Use for grinding operations where the surface finish is a priority
- Regular breaks in the work prevent the angle grinder from overheating (grinding dust, abrasive cloth particles)

MATERIALS, WORKPIECES



- Steel/cast steel and nonferrous metals with abrasive A



- Stainless steel/INOX and cast materials with abrasive ZA

MACHINE

Angle grinder



Environment, Ergonomics, Comfort

- Low weight (therefore extremely easy to handle)
- Reduced noise level (compared with rough grinding wheels up to - 15 dB(A))
- Support plate made of fibreglass reinforcement (wearing, does not cause any scratches on the workpiece)
- ZA-types have Fe, S, Cl content $\leq 0.1\%$
- No supporting disc necessary

Safety Information

- $V_s = 80$ m/s maximum operating speed
- Do not carry out grinding on the peripheral side
Risk of flaps coming off!
- Wear gloves when fitting flap discs (fibreglass core)!
Risk of injury! Small particles may get into your skin

Summary

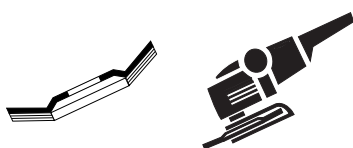
The flap disc is an extremely popular and universally used grinding tool with the advantage of producing a good surface quality on the workpiece.

PREMIUM ★★★ Flap discs

Perfect surface on steel, stainless steel (INOX) and NF metals combined with above-average performance! All zirconia alumina specifications (ZA) have a very low iron, sulphur and chlorine content ($\leq 0.1\%$) and are thus ideally suited for working on stainless steels.



PREMIUM



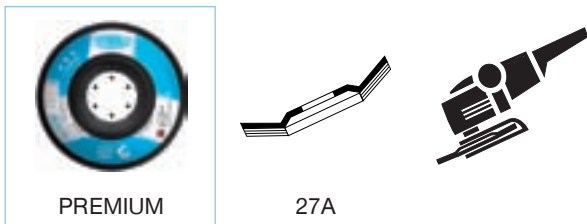
27A

Type No.	Shape	Dimensions	Specification	PU	Comments
160229	27A	115x22,2	ZA40-B *	10	Highest stock removal levels and 2-3 times longer wheel life compared to conventional flap discs, for machining steel and stainless steel (INOX)
160230	27A	115x22,2	ZA60-B *	10	
160235	27A	115x22,2	ZA80-B *	10	
160240	27A	125x22,2	ZA40-B *	10	
160242	27A	125x22,2	ZA60-B *	10	
160244	27A	125x22,2	ZA80-B *	10	
160245	27A	178x22,2	ZA40-B *	10	
160246	27A	178x22,2	ZA60-B *	10	
160247	27A	178x22,2	ZA80-B *	10	



*Fe, S, Cl content $\leq 0.1\%$

- $v_s = 80$ m/s
- ZA = zirconia alumina
- A = regular aluminium oxide
- Supporting discs made of fibre glass, self wearing
- using without supporting discs
- does not cause any scratches to the work-piece
- low-noise, cool polished section
- Fe, S, Cl content $\leq 0.1\%$



PREMIUM

27A

Type No.	Shape	Dimensions	Specification	PU	Comments
668633	27A	115x22,2	A120-B	10	Due to use of aluminium oxide and zirconia alumina, versatile professional tool for universal grinding jobs
668630	27A	115x22,2	A40-B	10	
668631	27A	115x22,2	A60-B	10	
668632	27A	115x22,2	A80-B	10	
795077	28A	115x22,2	A60-B	10	
668642	27A	115x22,2	ZA40-B *	10	
668644	27A	115x22,2	ZA60-B *	10	
668649	27A	115x22,2	ZA80-B *	10	
668634	27A	125x22,2	A40-B	10	
668635	27A	125x22,2	A60-B	10	
668637	27A	125x22,2	A80-B	10	
668663	27A	125x22,2	ZA40-B *	10	
668664	27A	125x22,2	ZA60-B *	10	
668665	27A	125x22,2	ZA80-B *	10	
668638	27A	178x22,2	A40-B	10	
668640	27A	178x22,2	A60-B	10	
668641	27A	178x22,2	A80-B	10	
668670	27A	178x22,2	ZA40-B *	10	
668672	27A	178x22,2	ZA60-B *	10	
668673	27A	178x22,2	ZA80-B *	10	
20907562	27LAM			10	
20907563	27LAM			10	

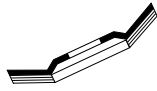


*Fe, S, Cl content \leq 0.1%

- $v_s = 80$ m/s
- ZA = zirconia alumina
- A = regular aluminium oxide
- Supporting discs made of fibre glass, self wearing
- using without supporting discs
- does not cause any scratches to the work-piece
- low-noise, cool polished section
- Fe, S, Cl content \leq 0.1%



PREMIUM



27A



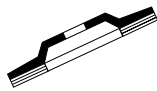
Type No.	Shape	Dimensions	Specification	PU	Comments
668660	27A	115x22,2	ZA120-B *	10	Special tool for universal use, the ideal number of fins ensures the longest wheel life
88916	27A	115x22,2	ZA40-B *	10	
88920	27A	115x22,2	ZA60-B *	10	
88921	27A	115x22,2	ZA80-B *	10	
668668	27A	125x22,2	ZA120-B *	10	
88922	27A	125x22,2	ZA40-B *	10	
88923	27A	125x22,2	ZA60-B *	10	
88924	27A	125x22,2	ZA80-B *	10	
668675	27A	178x22,2	ZA120-B *	10	
88925	27A	178x22,2	ZA40-B *	10	
88926	27A	178x22,2	ZA60-B *	10	
88927	27A	178x22,2	ZA80-B *	10	



LONG LIFE

*Fe, S, Cl content \leq 0.1%

PREMIUM



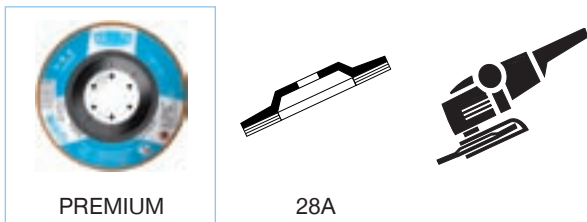
28A



Type No.	Shape	Dimensions	Specification	PU	Comments
668686	28A	115x22,2	ZA40-B *	10	Due to use of zirconia alumina, versatile professional tool for universal grinding jobs
668687	28A	115x22,2	ZA60-B *	10	
668691	28A	115x22,2	ZA80-B *	10	
668679	28A	115x22,2	A40-B	10	
668692	28A	125x22,2	ZA40-B *	10	
668693	28A	125x22,2	ZA60-B *	10	
668681	28A	125x22,2	A40-B	10	
728528	28A	125x22,2	A60-B	10	
817672	28A	125x22,2	A80-B	10	
668694	28A	125x22,2	ZA80-B *	10	
668697	28A	178x22,2	ZA60-B *	10	
668696	28A	178x22,2	ZA40-B *	10	
668698	28A	178x22,2	ZA80-B *	10	
668683	28A	178x22,2	A40-B	10	
886353	28A	178x22,2	A60-B	10	

*Fe, S, Cl content \leq 0.1%

- $v_s = 80$ m/s
- ZA = zirconia alumina
- A = regular aluminium oxide
- Supporting discs made of fibre glass, self wearing
- using without supporting discs
- does not cause any scratches to the work-piece
- low-noise, cool polished section
- Fe, S, Cl content \leq 0.1%



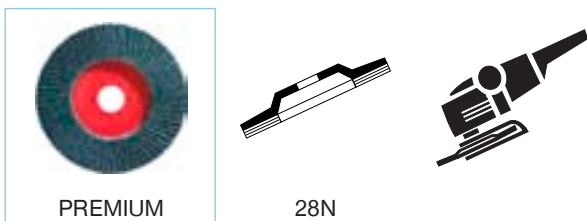
PREMIUM

28A

Type No.	Shape	Dimensions	Specification	PU	Comments
160249	28A	115x22,2	ZA40-B *	10	Highest stock removal levels and 2-3 times longer wheel life compared to conventional flap discs, for machining steel and stainless steel (INOX)
160251	28A	115x22,2	ZA60-B *	10	
160252	28A	115x22,2	ZA80-B *	10	
160254	28A	125x22,2	ZA40-B *	10	
160255	28A	125x22,2	ZA60-B *	10	
160256	28A	125x22,2	ZA80-B *	10	
160257	28A	178x22,2	ZA40-B *	10	
160258	28A	178x22,2	ZA60-B *	10	
160260	28A	178x22,2	ZA80-B *	10	



FAST CUT

*Fe, S, Cl content \leq 0.1%

PREMIUM

28N

Type No.	Shape	Dimensions	Specification	PU	Comments
458028	28N	115x22,2	ZA40-B *	10	Highest stock removal levels and 2-3 times longer wheel life compared to conventional flap discs, for machining steel and stainless steel (INOX)
458029	28N	115x22,2	ZA60-B *	10	
458030	28N	115x22,2	ZA80-B *	10	
458031	28N	125x22,2	ZA80-B *	10	
458033	28N	125x22,2	ZA60-B *	10	
458034	28N	125x22,2	ZA40-B *	10	
458035	28N	178x22,2	ZA40-B *	10	
458038	28N	178x22,2	ZA60-B *	10	
458040	28N	178x22,2	ZA80-B *	10	
458043	28N	115x22,2	ZA120-B *	10	
458044	28N	125x22,2	ZA120-B *	10	



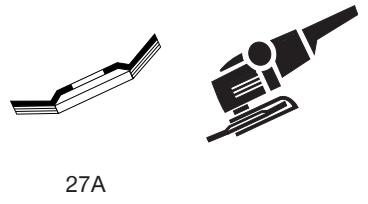
FAST CUT

*Fe, S, Cl content \leq 0.1%

- $v_s = 80$ m/s
- ZA = zirconia alumina
- A = regular aluminium oxide
- Supporting discs made of fibre glass, self wearing
- using without supporting discs
- does not cause any scratches to the work-piece
- low-noise, cool polished section
- Fe, S, Cl content \leq 0.1%

STANDARD ★ ★ Flap discs

We especially recommend this line for the specialist trade. ★ ★ flap discs are professional tools and can be universally used on steel, stainless steel (INOX) and NF metals. They fulfil the needs of difficult, demanding grinding jobs on all types of materials.



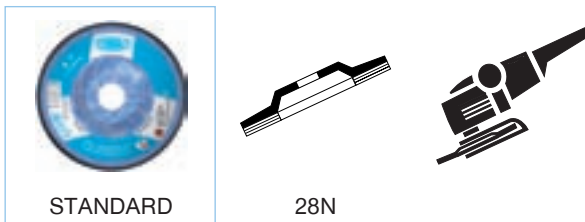
Type No.	Shape	Dimensions	Specification	PU	Comments
572473	27A	115x22,2	ZA40-B *	10	Professional tool for demanding grinding jobs, for surface and edge grinding, and also ideally suited to preparing and machining welding seams
454393	27A	115x22,2	ZA60-B *	10	
455312	27A	115x22,2	ZA80-B *	10	
896854	27A	115x22,2	ZA100-B *	10	
824385	27A	125x22,2	ZA40-B *	10	
455303	27A	125x22,2	ZA60-B *	10	
458587	27A	125x22,2	ZA80-B *	10	
580650	27A	178x22,2	ZA40-B *	10	
454396	27A	178x22,2	ZA60-B *	10	
455314	27A	178x22,2	ZA80-B *	10	



2in1

* Fe, S, Cl content ≤ 0.1%

- $v_s = 80$ m/s
- 27A: Supporting discs made of fibre glass
- 28N: Supporting discs made of plastic
- ZA = zirconia alumina
- Low-noise, cool polished section
- Fe, S, Cl content ≤ 0.1%



Type No.	Shape	Dimensions	Specification	PU	Comments
847917	28N	115x22,2	ZA40-B *	10	Professional tool for demanding grinding jobs, for surface and edge grinding, and also ideally suited to preparing and machining welding seams
247155	28N	115x22,2	ZA40-B *	10	
847924	28N	115x22,2	ZA60-B *	10	
247156	28N	115x22,2	ZA60-B *	10	
847927	28N	115x22,2	ZA80-B *	10	
247163	28N	115x22,2	ZA80-B *	10	
247165	28N	115x22,2	ZA120-B *	10	
926911	28N	115x22,2	A40-B	10	
926912	28N	115x22,2	A60-B	10	
926914	28N	115x22,2	A80-B	10	
86301	28N	115x22,2	A100-B	10	
86302	28N	115x22,2	A120-B	10	
847921	28N	125x22,2	ZA40-B *	10	
247166	28N	125x22,2	ZA40-B *	10	
847925	28N	125x22,2	ZA60-B *	10	
247169	28N	125x22,2	ZA60-B *	10	
847928	28N	125x22,2	ZA80-B *	10	
247170	28N	125x22,2	ZA80-B *	10	
247366	28N	125x22,2	ZA120-B *	10	
847923	28N	178x22,2	ZA40-B *	10	
247171	28N	178x22,2	ZA40-B *	10	
247172	28N	178x22,2	ZA60-B *	10	
847926	28N	178x22,2	ZA60-B *	10	
247174	28N	178x22,2	ZA80-B *	10	
847929	28N	178x22,2	ZA80-B *	10	
247175	28N	178x22,2	ZA120-B *	10	



2 in 1

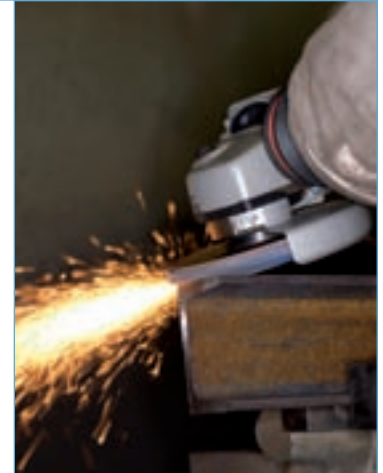
*Fe, S, Cl content \leq 0.1%


- $v_s = 80$ m/s
- 27A: Supporting discs made of fibre glass
- 28N: Supporting discs made of plastic
- ZA = zirconia alumina
- Low-noise, cool polished section
- Fe, S, Cl content \leq 0.1%

STANDARD ★ ★ SOFT JOB Flap discs

The perfect addition to flap discs, the ★ ★ SOFT JOB flap discs distinguish themselves by their flexibility, based not only on their wide range of uses but also due to being ideally adapted to different workpiece shapes.

Quiet, convenient tool that is mainly suited to fitting and finishing work.



Type No.	Shape	Dimensions	Specification	PU	Comments
246987	28S	115x22,23	ZA40-B *	10	All metals including non-ferrous metals, plastics, wood, paints and fillers can be machined with reduced speed  2in1
303212	28S	115x22,23	ZA40-B *	10	
246988	28S	115x22,23	ZA60-B *	10	
303213	28S	115x22,23	ZA60-B *	10	
246990	28S	115x22,23	ZA80-B *	10	
303214	28S	115x22,23	ZA80-B *	10	
246994	28S	115x22,23	ZA120-B *	10	
303215	28S	115x22,23	ZA120-B *	10	
246995	28S	125x22,23	ZA40-B *	10	
303217	28S	125x22,23	ZA40-B *	10	
246996	28S	125x22,23	ZA60-B *	10	
303218	28S	125x22,23	ZA60-B *	10	
246998	28S	125x22,23	ZA80-B *	10	
303219	28S	125x22,23	ZA80-B *	10	
247001	28S	125x22,23	ZA120-B *	10	
303216	28S	125x22,23	ZA120-B *	10	

* Fe, S, Cl content ≤ 0.1%

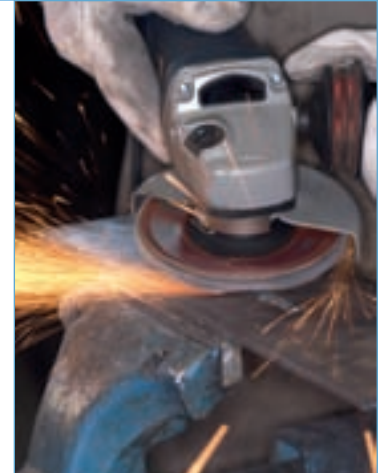
- $v_s = 80$ m/s
- 28S: Supporting discs made of fibre glass, Ø 50 mm only with threaded seat
- Extremely low noise
- ZA = zirconia alumina
- All metals including non-ferrous metals, plastics, wood, paints and fillers can be machined with reduced speed
- Fe, S, Cl content ≤ 0.1%

BASIC ★ Flap discs

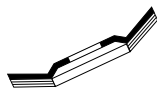
The all-round products for cost-effective use.

Universally used in industry and craftwork on all metals.

Due to the use of high quality cloths with zirconia alumina, there are no limits to the applications of these products.




BASIC

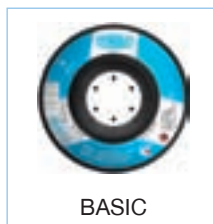


27A

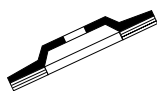


Type No.	Shape	Dimensions	Specification	PU	Comments
273884	27A	115x22,23	ZA40-B *	10	Versatile tool for universal applications, suitable for angle grinders of any power. 
273810	27A	115x22,23	ZA60-B *	10	
273871	27A	115x22,23	ZA80-B *	10	
273872	27A	125x22,23	ZA40-B *	10	
273873	27A	125x22,23	ZA60-B *	10	
273874	27A	125x22,23	ZA80-B *	10	

*Fe, S, Cl content \leq 0.1%




BASIC



28A



Type No.	Shape	Dimensions	Specification	PU	Comments
320318	28A	115x22,23	ZA40-B	10	Versatile tool for universal applications, suitable for angle grinders of any power. 
320320	28A	115x22,23	ZA60-B	10	
320322	28A	115x22,23	ZA80-B	10	
320319	28A	125x22,23	ZA40-B	10	
320321	28A	125x22,23	ZA60-B	10	
320323	28A	125x22,23	ZA80-B	10	

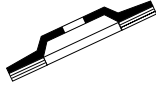
*Fe, S, Cl content \leq 0.1%

- $v_s = 80$ m/s
- ZA = zirconia alumina
- 27A and 28A: Supporting discs made of fibre glass
- Extremely low noise

- All metals including non-ferrous metals, plastics, wood, paints and fillers can be machined with reduced speed
- Fe, S, Cl content \leq 0.1%



BASIC



28N



Type No.	Shape	Dimensions	Specification	PU	Comments
246870	28N	115x22,23	ZA40-B *	10	Versatile tool for universal applications, suitable for angle grinders of any power.
246871	28N	115x22,23	ZA60-B *	10	
246872	28N	115x22,23	ZA80-B *	10	



*Fe, S, Cl content \leq 0.1%

- $v_s = 80$ m/s
- ZA = zirconia alumina
- 27A and 28A: Supporting discs made of fibre glass
- Extremely low noise

- All metals including non-ferrous metals, plastics, wood, paints and fillers can be machined with reduced speed
- Fe, S, Cl content \leq 0.1%