

Garment News 2016



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PERIZYM 69/400

High-concentrated neutral cellulase





Chemistry: Special enzyme proteins

Consistency: Amber liquid

Properties:

- double concentrated version of PERIZYM
 69 d.c.
- highly efficient neutral cellulase
- removal of fibre fluffs
- less loss of weight and strength compared to acid cellulases
- working range between pH 5 and 8
- less backstaining compared to acid cellulases on blue denim articles
- on coloured fabric, there is less bleeding and therefore less colour changing

PERIZYM 69/400



Usage amount:	0.15 – 1.0 g/l
LR:	1: 4 – 1:10
Temperature:	40 – 60 °C
pH:	5 – 8; optimum at 6.0 – 7.0
Treatment time:	15 – 60 minutes
Enzyme stop:	10 minutes \geq 85 °C or 10 minutes at pH \geq 9.0

PERIZYM 69/400

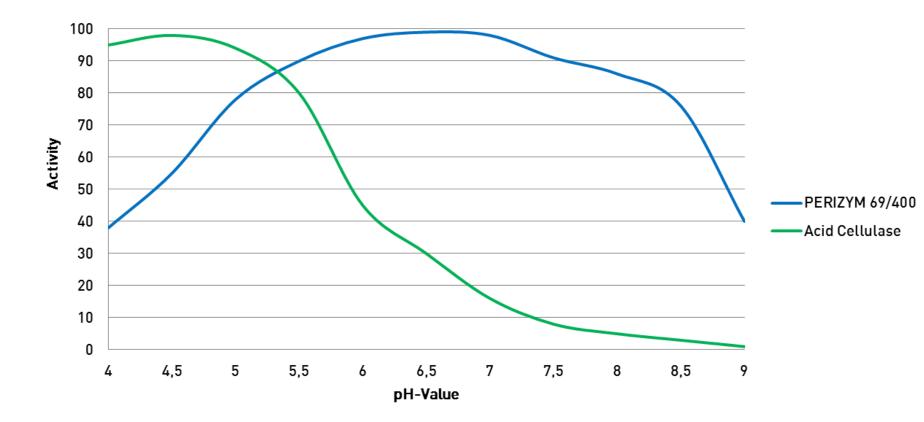


	PERIZYM 69	PERIZYM 69 d.c.	PERIZYM 69/400
Usage amount [g/l]	0.5 – 4.0	0.25 – 2.0	0.15 – 1.0
LR		1:4 – 1:10	
Temperature [°C]		45 – 60	
рН	5 – 8; optimum at 6.0 – 7.0		
Treatment time [minutes]	15 – 60		
Enzyme stop	10 minutes≥	80 °C or 10 minu	tes at pH \ge 9.0





Activity of PERIZYM 69/400 and acid cellulase





PERIZYM ACE 15 PERIZYM ACE 30

High concentrated acid cellulases



PERIZYM ACE 15 PERIZYM ACE 30



- Chemistry: Special enzyme proteins
- Consistency: Amber liquid
- Properties: high-concentrated modified acid cellulase
 - very good cost-performance ratio
 - removal of fibre fluffs
 - working range between pH 4.5 and 5.5
 - less backstaining compared to other acid cellulases on blue denim articles

PERIZYM ACE 10/15/30



	PERIZYM ACE 10	PERIZYM ACE 15	PERIZYM ACE 30
Usage amount [g/l]:	0.3 – 1.5	0.2 – 1.0	0.1 – 0.5
LR:		1:4 - 1:10	
Temperature [°C]:	45 – 60		
рН	4.5 – 5.5		
Treatment time [min.]	15 – 45		
Enzyme stop	10 minutes \geq 8	85 °C or 10 minu	utes at pH \ge 9.0



PERIZYM LAC COLD High-concentrated laccase for bleaching blue denim





Chemistry: Consistency: Properties: Special enzyme proteins

White and coloured granulates

- high-concentrated modified laccase enzyme
- good cost-performance ratio
- ready-to-use formulation with strong buffering system
- working range between pH 4.0 and 5.5
- very stable formulation
- good performance in cold water, energy and time savings are given



Usage amount:	1.5 – 3.0 g/l
LR:	1:4 – 1:12
Temperature:	20 – 60 °C
pH:	4.0 – 5.5; optimum at 4.5
Treatment time:	15 – 45 minutes
Enzyme stop:	not necessary



Fabric:	100 % CO (indigo-dyed) desized and enzyme washed
LR:	1:10
Temperature:	35 °C
pH:	around 4.5 (buffered)
Treatment time:	30 minutes
Enzyme stop:	not necessary







Fabric, desized and enzyme washed

1.5 g/l PERIZYM DEN

1.5 g/l PERIZYM LAC COLD

1.5 g/l PERIZYM LAC COLD washed two times



PERLAVIN ABS NEW 100 Concentrated antibackstaining agent





Chemistry: Fatty alcohol polyglycol ether

- Consistency: White powder
- Ionic Char.: Nonionic

Properties:

- not enzyme toxic, usage in all enzyme applications
 - strong dispersing power for indigo, sulphur and pigment dyed garments
 - good dispersing power for fibre fragments
 - good washing properties with higher amount of electrolytes and water hardness



PERLAVIN ABS NEW 100 can be added directly into the drum washing machine.

 Usage amount:
 0.1 - 0.5 g/l

 LR:
 1:4 - 1:10

 Temperature:
 $20 - 80 \ ^{\circ}\text{C}$

 Treatment time:
 5 - 60 minutes



Leather-like effects





Chemistry: Polymercompound of vinylacetate/ethylene copolymer, aluminiumsilicates and additives

- Consistency: Ionic Char.:
- Viscous beige dispersion Anionic
- Properties:
- high pigment binding capacity
- forms solid leather-like effects
- wash permanent after curing
- miscible with most anionic or nonionic polymers and pigments
- application by spraying or brushing



Brush: 800 g/l PERICOAT LEF 2 x g/l PERICOLOR WHITE P/YW y g/l PERICOLOR P pigment

Brushing the paste on the respective areas of the garment.

- Drying: 80° C, 20 minutes
- Curing: 140 ° C, 15 minutes

Afterwards break/wrinkle the film. A tumbling step with silicone balls will help to increase the shiny effects and improve the handle.

Feel free to modify our application recommendation by your individual ideas and processes.







PERIPRET LUSTER 2

Luster-like effects



PERIPRET LUSTER 2



Chemistry:

Properties:

Consistency:

Vinylacetates and special additives

- Beige, liquid dispersion
- Ionic Char.: Nonionic
 - special product for shiny effects on garments
 - contains self-crosslinking polymers
 - wash-permanent after curing
 - miscible with polymers and pigments
 - application by spraying or brushing
 - smooth surface after tumbling with silicone balls





Brush: 900 g/l PERICOAT LUSTER 2 x g/l PERICOLOR P pigment

Brushing the paste on the respective areas of the garment.

Drying:	80° C, 20 minutes
Curing:	140 ° C, 15 minutes

Afterwards break/wrinkle the film. A tumbling step with silicone balls will help to increase the shiny effects and improve the handle.

Feel free to modify our application recommendation by your individual ideas and processes.

PERICOAT LUSTER 2







Dipping: 100 - 300 g/l PERICOAT LUSTER 2 x g/l PERICOLOR P pigment

Dipping the garments and run in the washing machine (without water).

Drying:	80° C, 20 minutes
Curing:	140° C, 15 minutes

Afterwards break/wrinkle the film. A tumbling step with silicone balls will help to increase the shiny effects and improve the handle.

Feel free to modify our application recommendation by your individual ideas and processes.

PERICOAT LUSTER 2







PERICOAT WHITE/AC PERICOAT WHITE/VA PERICOAT WHITE LF NEW White ready-to-use

compounds







Chemistry: Polymercompound based on acrylates and white pigments

Consistency: Pasty white dispersion

Ionic Char.: Anionic

- Properties: forms very soft and white films
 - permanent after curing
 - miscible with polymers and pigments
 - application by spraying or brushing





Chemistry: Polymercompound based on vinylacetate and white pigments

Consistency: Pasty white dispersion

Ionic Char.: Anionic

- Properties: forms soft and white films
 - permanent after curing
 - miscible with polymers and pigments
 - application by spraying or brushing



Chemistry: Polymercompound based on acrylates, white pigment and special additives

Consistency: Pasty white dispersion

Ionic Char.:

Anionic

Properties:



- forms soft, shiny and flexible films
- washpermanent after curing, cold crosslinkable
- miscible with polymers and pigments
- application by spraying or brushing
- free of formaldehyde



PERFIXAN F 3000 PERFIXAN F 5000

Pre-cationising agent Abrasion improvement Fixing agent



PERFIXAN F 3000 PERFIXAN F 5000



Chemistry: Polymercompound based on modified polyamin

- Consistency: Yellow, clear
- Ionic Char.: Cationic

Properties:

- forms flexible films
 - ecological and economical dyeing process
 - free of formaldehyde and heavy metal
 - washpermanent after drying
 - application by spraying, brushing, foulard and exhaust process
 - Improvement of crocking fastness indigo dyed garments

PERFIXAN F 3000 PERFIXAN F 5000



- improves the abrasion resistance
- suitable as pre-cationising agent for old-dye processes, the light fastness will be effected less than with other cationic products





PERILITH LITE

Perlite for higher abrasion, bleaching and dyeing effects



PERILITH LITE



Chemistry: Consistency: Properties:

Perlit

White granulates

- natural based material (amorphous volcanic glass), treated in an oven at around 800 °C
- storage material for liquids like KMnO₄, dyes, ready-to-use paste etc.
- very good abrasion properties, suitable in stone-wash process for sensitive fabrics
- suitable for handle/optic modification e.g. peach-skin
- suitable for knitted garments
- very light in weight, can be used to fill containers for shipments

PERILITH LITE



One pallet contains 24 bags (10 kg), weight of one pallet: 240 kg



One paper bag 10 kg

PERILITH LITE

Dimensional weight: 127 g/l



PERISTAL IND BLEACH T 80 Ecological bleaching auxiliary for Indigo





Chemistry:

Properties:

Blend of oxidising agents

Consistency: Colourless, clear liquid

Ionic Char.: Nonionic

- auxiliary for discharge effects on indigo dyed fabric
 - suitable for printing and spraying
 - free of chlorine and potassium permanganate
 - free of heavy metals and formaldehyde
 - miscible with discharge-resistance dyes or pigments

PERISTAL IND BLEACH T 80





PERISTAL IND BLEACH T 80





Before washing

PERISTAL IND BLEACH T 80





After washing



- Printing: 160 g/l PERISTAL IND BLEACH T 80 80 g/l PERIGUM GE8 (stock thickening)
- Drying: 100° C, 3 minutes
- Washing: 1 g/l PERLAVIN WPW 2 g/l PERISTAL WWC

10 min at 40 °C, cold rinse twice



Spraying: 180 g/l PERISTAL IND BLEACH T 80

Drying: 80° C, 15 minutes

Washing:

1 g/l PERLAVIN WPW 2 g/l PERISTAL WWC 10 min at 40 °C cold rinse twice





New dyeing techniques

Old-Dyeing Wave-Dyeing



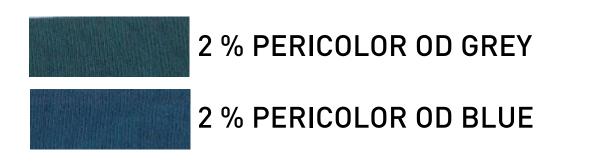
PERICOLOR OD - range





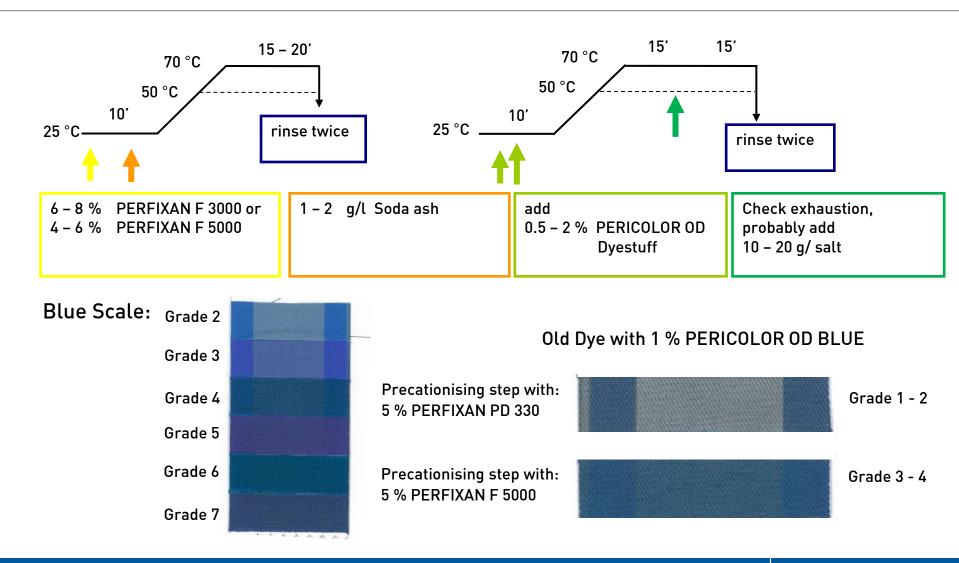






More colors are in development















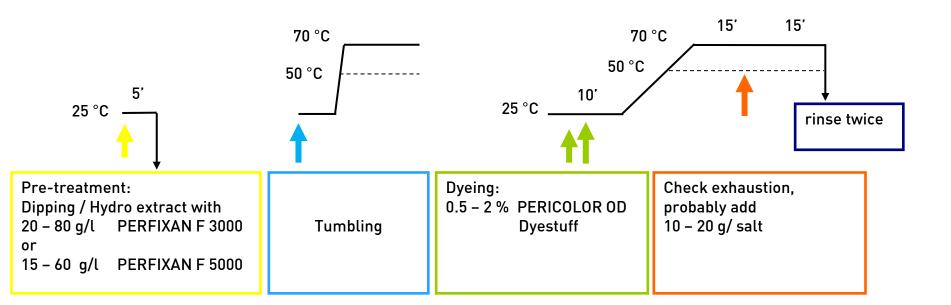












Stronger effects are possible with a high liquor pick-up in the pre-treatment step and low temperature tumbling.

Wave-Dye with PERFIXAN F 3000/5000







Light fastness according ISO EN 105 B02 – 40 % rel. humidity 70/140 hours

pre-treatment with PERFIXAN F 5000 resp. Old-Dye recipe

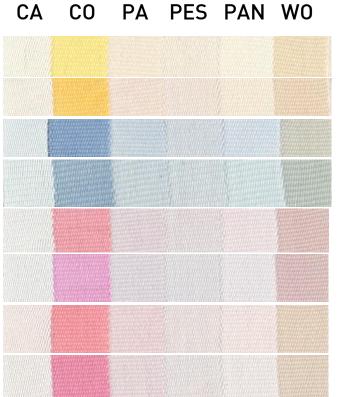
2 % PERICOLOR OD YELLOW	Grade 4 - 5						
2 % PERICOLOR OD ORANGE	Grade 5						
2 % PERICOLOR OD SCARLET	Grade 3						
2 % PERICOLOR OD RED	Grade 4						
2 % PERICOLOR OD BORDEAUX	Grade 4 - 5	Blue	Scale	: [Gra	ade]		
2 % PERICOLOR OD RUBY	Grade 4 - 5	2	3	4	5	6	7
2 % PERICOLOR OD GREY	Grade 5 - 6						
2 % PERICOLOR OD BLUE	Grade 4						





Wash fastness according DIN EN ISO 105-C06 (ISO multifibre type DW) rinse washed (1 min. cold)

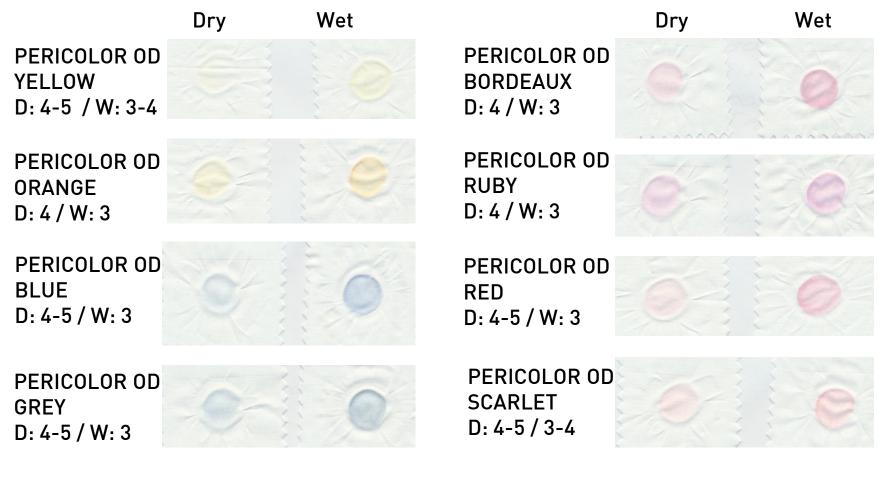
> PERICOLOR OD YELLOW PERICOLOR OD ORANGE PERICOLOR OD BLUE PERICOLOR OD GREY PERICOLOR OD BORDEAUX PERICOLOR OD RUBY PERICOLOR OD RED



PERICOLOR OD - range



Rubbing fastness according to DIN EN ISO 105-X-12





Outlook

Indigo coating / spraying with low yellowing





Ready-to use dispersion of real Indigo-dyestuff will be developed in few weeks



- low yellowing (NOx and Ozone fading)
- good wash permanency
- suitable for scraping/scratching/stone wash effects
- dischargeable with PP or with PERISTAL IND BLEACH T 80
- bleachable with chlorine or with PERISTAL IGO 75

Indigo coating











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