

INDUSTRIAL WASHING

ACTIVO PROTECT-S 36
SOLIDO PROTECT-S 4 | 6
PREMEO PROTECT-S 3 | 4 | 6

YKK

Little Parts. Big Difference.®



PRESS STUD SYSTEMS MADE OF STAINLESS STEEL

Workwear that is industrially washed is subject to special requirements, which is why the press stud fastening system made of corrosion-resistant stainless steel is the best solution.

In addition to the intensive loads they are exposed to during wearing, the washing process in particular plays an important role for the durability and performance capability of the products. Washing substances and dewatering presses can degrease and deform the function parts, and impact heavily on the fastener. As a result, the press studs can no longer be opened or closed. This leads to high repair rates.

For this reason, YKK STOCKO FASTENERS supplies various stainless steel models of the ACTIVO, SOLIDO and PREMEO systems as the variant PROTECT-S that are best suited for the respective requirement.

OUR STAINLESS STEEL SYSTEMS AT A GLANCE

FOR WORKWEAR / CORPORATE FASHION, TEXTILE SERVICE AND TECHNICAL APPLICATIONS

ACTIVO PROTECT-S 36 **THE TRIED-AND-TESTED** **ECONOMY SYSTEM**



PREMEO PROTECT-S 3 **THE FORWARD-THINKING** **LONGLIFE SYSTEM**

EXCELLENT FORM STABILITY THANKS TO FLEXFIX® TECHNOLOGY



SOLIDO PROTECT-S 4 | 6 **THE RELIABLE S-SPRING SYSTEM**



PREMEO PROTECT-S 4 | 6 **THE DURABLE ONE** **HIGH-PERFORMANCE-SYSTEM**

EXCELLENT FORM STABILITY THANKS TO FLEXFIX® TECHNOLOGY



ACTIVO PROTECT-S 36

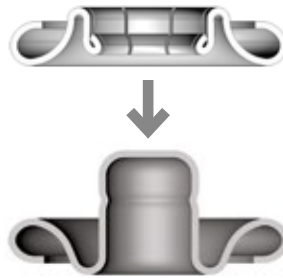
THE TRIED-AND-TESTED ECONOMY SYSTEM

This pronged snap system, also known as Knipper®, is very safe and gentle on the fabric thanks to its properties. The five-fold prongs get anchored into the material without damaging it. ACTIVO PROTECT-S is highly suitable for elastic and/or lighter fabrics. The flat design, light weight and the smooth fastener offers a variety of possibilities. Depending on the application purpose, the individual system components can be combined in various ways.

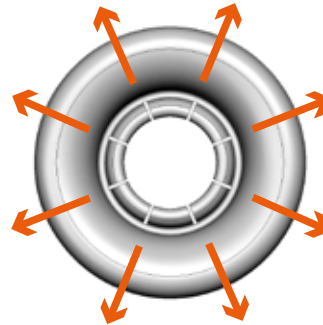


THE WORKING PRINCIPLE

Sectional drawing of the socket



Sectional drawing of the ring stud



The individual spring segments open in the direction of the arrow, if the ring stud is fed in.



SPECIAL ASPECTS

- Flat design
- Smooth fastener
- Gentle on materials
- Lightweight
- Can be combined

DESIGN OPTIONS


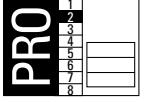
- Caps in stainless steel or plastic (PA66)
- Cap in a fashionable design / customer embossing

APPLICATION SCOPES FOR WORKWEAR

ACTIVO PROTECT-S 36 is particularly suitable for coats and blouses/shirts.

Item	Material thickness [mm]	Grammage [gr]		Clothing			
		< 200	> 200	Coat	Blouses	Jackets	Trousers
 DAO 36	0,3 – 1,2	●		●	●		
 DAO 36.001	0,3 – 1,2	●		●	●		

TECHNICAL DATA

ACTIVO PROTECT-S 36	
Item designation	DAO 36 (soft) DAO 36.001 (standard)
Material	Stainless steel 1.4401
Processing	Semi-automatic and fully automatic
Care label	1. Household laundry 
	2. Industrial laundry  Washing procedure for white workwear and/or sensitive coloured trimming items · Peracetic acid bleach Polyester/cotton · Regreasing is absolutely necessary
Norm conformity	EN 71
	DIN EN 1811 Nickel release < 0.28 µg/week
Kensin	no
Absence of pollutants	OEKO-TEX Standard 100 (DETOX: We are currently undergoing recertification according to Attachment 6.) Class 2 (Products with direct skin contact)
	The item meets the requirements of the REACH Regulation in the respective valid version
	The item meets the statutory requirements of the Consumer Goods Ordinance and the Chemicals Prohibition Order in the respective valid version
Tear-off force (N)	> 90N
Temperature resistance	400°C
Melting range	approx. 1,500°C
Light-fast	ISO 105 B02
Corrosion resistance	high
Additional information	ATTENTION: After washing, REGREASING is absolutely necessary, for instance by means of a fabric softener. Otherwise, the powerful degreasing process during the industrial washing can lead to greatly increased opening values through to complete failure of the fastening system. To optimise and extend the durability of the fastening properties, we recommend closing fasteners during industrial washing, and always using rehydrating additives or, alternatively, the form-stable and durable press stud system PREMEO PROTECT-S 3.

SOLIDO PROTECT-S 4 | 6

THE RELIABLE S-SPRING SYSTEM

The SOLIDO PROTECT-S press stud system is based on the dual S-shaped spring wire made of stainless steel in the eyelet part. The smooth-running and precise fastener offers a broad application range for firmer textile materials and technical applications.



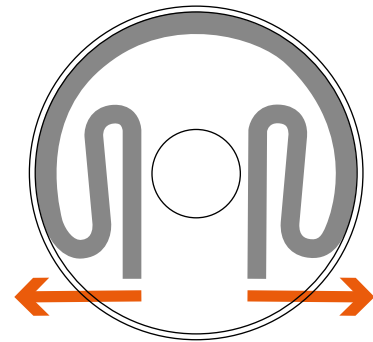
THE WORKING PRINCIPLE



Sectional drawing of the socket



Sectional drawing of the ring stud



The ends of the S-springs open when the ring stud is squeezed



SPECIAL ASPECTS


- Sporty design
- Smooth running and precise
- Universal

DESIGN OPTIONS


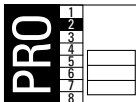
- Caps in stainless steel or colour-matching plastic
- Cap in a fashionable design / customer embossing

APPLICATION SCOPES FOR WORKWEAR

SOLIDO PROTECT-S 4 | 6 is particularly suitable for jackets and trousers.

Item	Material thickness [mm]	Grammage [gr]		Clothing			
		< 200	> 200	Coat	Blouses	Jackets	Trousers
 DSO 4.025	0,3 – 1,5		●	●		●	●
 DSO 6.025	0,3 – 1,5		●	●		●	●

TECHNICAL DATA

SOLIDO PROTECT-S 4 6		
Item designation	DSO 4.025S	DSO 6.025S
Material	Stainless steel 1.4401	
Processing	Semi-automatic and fully automatic	
Care label	1. Household laundry	
	2. Industrial laundry	 Washing procedure for white workwear and/or sensitive coloured trimming items · Peracetic acid bleach Polyester/cotton · Regreasing is absolutely necessary
Norm conformity	EN 71-3 ²	
	DIN EN 1811 Nickel release	< 0.28 µg/week
Kensin	no	
Absence of pollutants	OEKO-TEX Standard 100 (DETOX: We are currently undergoing recertification according to Attachment 6.)	Class 2 (Products with direct skin contact)
	The item meets the requirements of the REACH Regulation in the respective valid version	
	The item meets the statutory requirements of the Consumer Goods Ordinance and the Chemicals Prohibition Order in the respective valid version	
Tear-off force (N)	> 120N	
Temperature resistance	400°C	
Melting range	approx. 1,500°C	
Light-fast	ISO 105 B02	
Corrosion resistance	high	
Additional information	The item corresponds to the EN 71-1 with regard to the tear-off force if the mixing corresponds to the specification by YKK STOCKO FASTENERS GmbH. We recommend the forward-thinking PREMEO PROTECT-S series as a very durable further development.	

The background of the entire image is a dark, almost black, space filled with numerous wireframe models of donut-shaped objects (tori). These models are rendered in a light blue or grey color, creating a sense of depth and perspective. One central donut model is highlighted in a vibrant orange color, making it the focal point of the composition. The wireframe structure of each donut is clearly visible, showing the grid of lines that define its three-dimensional form. The overall aesthetic is technical and futuristic, suggesting a focus on engineering, design, or digital technology.

PREMEO PROTECT-S
CLOSES PROBLEMS.
OPENS UP POSSIBILITIES.

WELL THOUGHT-THROUGH AND LONG-TERM RESISTANCE: PREMEO PROTECT-S 3 | 4 | 6

The PREMEO PROTECT-S is an innovative press-stud system we developed that is far superior with respect to durability and functionality than conventional systems used on workwear.



THE BENEFITS AT A GLANCE

- High stability when using dewatering presses
- Constant opening values
- No cold welding of socket and stud thanks to high-performance plastic
- High level of comfort thanks to a constant level of quality
- Long-term resistance
- Number of repairs in the laundries are reduced

OTHER SPECIAL ASPECTS:

- High thermal stability
- Chemical resistance to hydrocarbons (car fuel, mineral oil, engine oil, etc.), essential oils, alcohol and conventional reagents (RKI list)
- Washing and cleaning resistance according to DIN EN ISO 15797 (after min. 50 washes)
- The norms EN 71, ÖkoTex 2 and Antinickel are satisfied

FACTOR GREEN

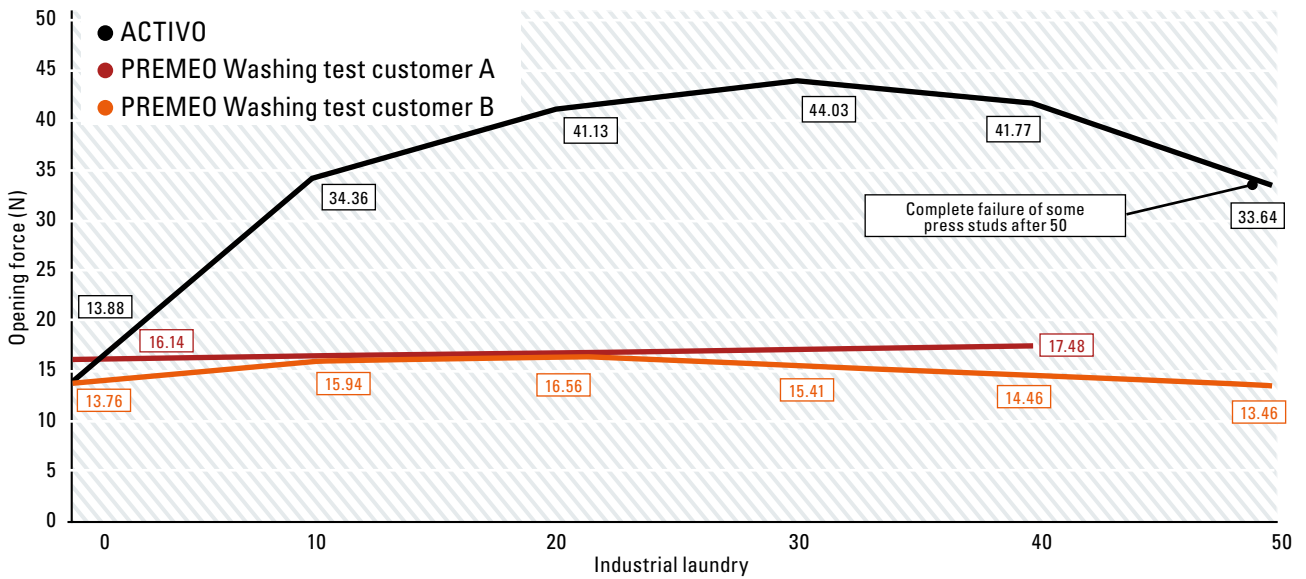
Our contribution for environmentally-friendly products: Durable and recyclable materials. Find out more at: www.stocko-ykk.de



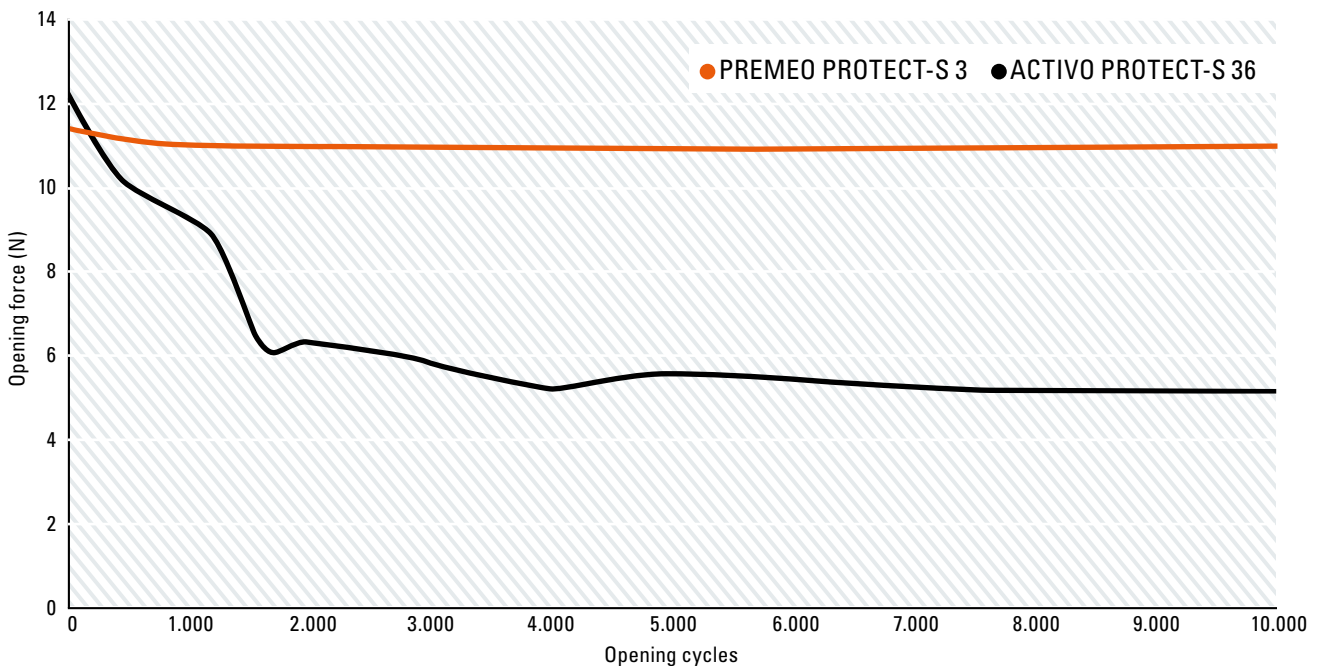
TESTS CONFIRM THE LONG-TERM DURABILITY OF PREMEO PROTECT-S 3 | 4 | 6

Tests at service supplier companies and the Institute ITV Denkendorf and Hohenstein* proved the high durability of the PREMEO PROTECT-S series. Thanks to its high-quality finish, PREMEO PROTECT-S 3 | 4 and 6 reduce the repair rates and contribute to reducing the costs. The constant high quality ensures a high level of comfort.

SUCCESSFUL TESTS AT TEXTILE SERVICE SUPPLIER COMPANIES AND THE INSTITUTES ITV AND HOHENSTEIN



IMPRESSIVE LONG-TERM RESISTANCE



* The above-mentioned information corresponds to our current knowledge. Changes can be made at any time without prior notice. The technical information does not relieve you of your duty to carry out your own tests of our products with respect to their suitability for the intended application case. Our products are processed and used outside our control and therefore lie outside our scope of responsibilities. Our products are sold in line with our general terms and conditions.

PREMEO PROTECT-S 3 THE FORWARD-THINKING LONG-LIFE SYSTEM

Press studs that undergo industrial washing need to meet stricter requirements. This includes the high mechanical load exerted by the dewatering presses. The opening values may not change either as a result of wear or degreasing. PREMEO PROTECT-S 3 based on a retaining ring is suitable for thin and light to medium-heavy materials and knitwear. The excellent form stability is guaranteed by the FlexFix® technology. Thanks to the material selection, there is no risk of cold welding when buttoning up.




NEW PRESS STUDS FOR WORKWEAR

PREMEO PROTECT-S 3 with FlexFix® technology keeps you on the safe side. Thanks to its form stability, the high-end product that is specially developed for industrial washing is highly durable and has constant opening values. Sustainability is that easy.



APPLICATION SCOPES FOR WORKWEAR

We primarily recommend PREMEO PROTECT-S 3 for lighter workwear, like coats and blouses.

Item	Material thickness [mm]	Grammage [gr]		Clothing			
		< 200	> 200	Coat	Blouses	Jackets	Trousers
	DPO 3/36	0,2 – 1	●		●	●	

TECHNICAL DATA

PREMEO PROTECT-S 3	
Item designation	DPO 3/36SP
Material	Stainless steel 1.4401 + plastic POM
Processing	Semi-automatic and fully automatic
Care label	1. Household laundry
	2. Industrial laundry
Norm conformity	EN 71
	DIN EN 1811 Nickel release
Kensin	no
Absence of pollutants	OEKO-TEX Standard 100 (DETOX: We are currently undergoing recertification according to Attachment 6.)
	Class 2 (Products with direct skin contact)
	The item meets the requirements of the REACH Regulation in the respective valid version
	The item meets the statutory requirements of the Consumer Goods Ordinance and the Chemicals Prohibition Order in the respective valid version
Tear-off force (N)	> 90N
Temperature resistance	Up to 160°C (ISO 17493 – testing the convective heat resistance when using a hot-air circulating furnace – visual inspection of changes)
Melting range	approx. 180°C
Light-fast	high
Corrosion resistance	Stainless steel: high
	Plastic: very high

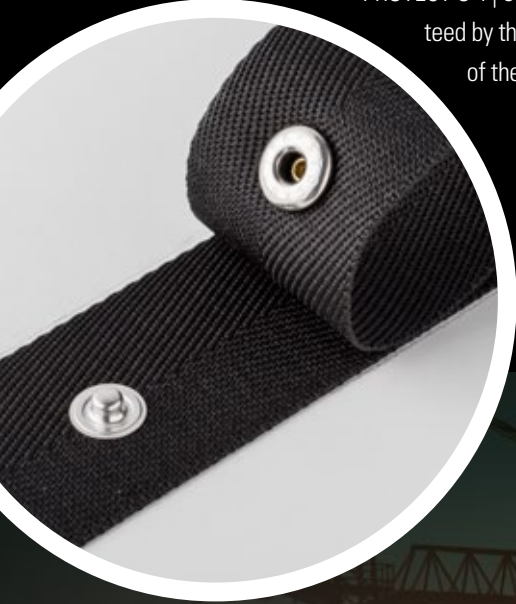
PREMEO PROTECT-S 4 | 6

THE DURABLE HIGH-PERFORMANCE SYSTEM

Press studs that undergo industrial washing need to meet stricter requirements. This includes the high mechanical load exerted by the dewatering presses. The opening values may not change either as a result of wear or degreasing. PREMEO PROTECT-S 4 | 6 are centrally riveted for stronger and heavy fabrics and materials. The excellent form stability is guaranteed by the FlexFix® technology in two sizes. Thanks to the selection of materials, the risk of an extreme increase of the opening values (cold welding) is ruled out due to the complete regreasing process in industrial washing.


THE PRESS STUDS FOR WORKWEAR

PREMEO PROTECT-S 4 and PREMEO PROTECT-S 6 with FlexFix® technology keep you on the safe side.


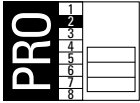


APPLICATION SCOPES FOR WORKWEAR

PREMEO PROTECT-S is highly suitable for heavy-duty clothing like jackets and trousers.

Item	Material thickness [mm]	Grammage [gr]		Clothing			
		< 200	> 200	Coat	Blouses	Jackets	Trousers
	DPO 4.025	0,3 – 1,5		●	●	●	●
	DPO 6.025	0,3 – 1,5		●	●	●	●

TECHNICAL DATA

PREMEO PROTECT-S 4 6		
Item designation	DPO 4.025SP	DPO 6.025SP
Material	Stainless steel 1.4401 + plastic POM	
Processing	Semi-automatic and fully automatic	
Care label	1. Household laundry	
	2. Industrial laundry	 Washing procedure for white workwear and/or sensitive coloured trimming items · Peracetic acid bleach Polyester/ cotton
Norm conformity	EN 71	
	DIN EN 1811 Nickel release	< 0.28 µg/week
Kensin	no	
Absence of pollutants	OEKO-TEX Standard 100 (DETOX: We are currently undergoing recertification according to Attachment 6.)	Class 2 (Products with direct skin contact)
	The item meets the requirements of the REACH Regulation in the respective valid version	
	The item meets the statutory requirements of the Consumer Goods Ordinance and the Chemicals Prohibition Order in the respective valid version	
Tear-off force (N)	> 120N	
Temperature resistance	Up to 160°C (ISO 17493 – testing the convective heat resistance when using a hot-air circulating furnace – visual inspection of changes)	
Melting range	approx. 180°C	
Light-fast	high	
Corrosion resistance	Stainless steel: high	Plastic: very high

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