



Dräger HPS® SafeGuard EN

Firefighting and rescue helmet

Technical Data Sheet


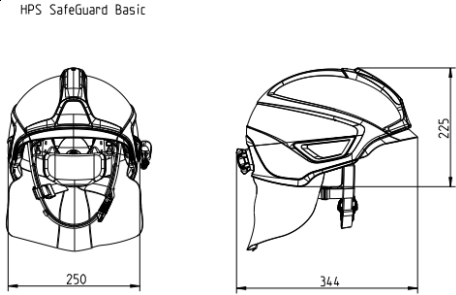
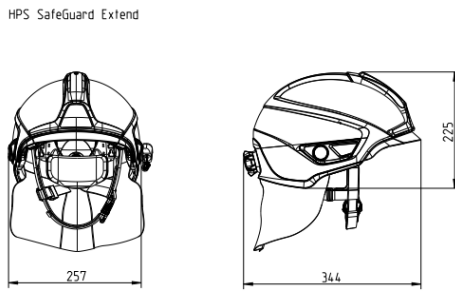


Helmet and components		
Variants and scope of delivery	<p>Dräger HPS® SafeGuard EN (fixed helmet variants) with</p> <ul style="list-style-type: none"> • Integrated face guard clear with AS/AF coating • Basic harness without cheek padding in size L • Crown straps without comfort pad • Interior design with Basic padding • Basic function plates <p>Available in the following colours with part numbers:</p> <p>3701621 – luminescent 3701622 – red 3701623 – fluorescent yellow 3701624 – white</p>	
	<p>Dräger HPS® SafeGuard Extend EN (fixed helmet variants) with</p> <ul style="list-style-type: none"> • Integrated face guard and eye guard, both clear with AS/AF coating • Extend harness with cheek padding in size L • Crown straps with comfort pad • Interior design with Extend padding • Extend function plates for adapting optional accessories • Neck protector Nomex® short • Silver reflective strip at the back <p>Available in the following colours with part numbers:</p> <p>3701625 – luminescent 3701626 – red 3701627 – fluorescent yellow</p>	

Dräger HPS® SafeGuard EN

Firefighting and rescue helmet

Technical Data Sheet

	Dräger HPS® SafeGuard EN Configurator Further versions with all available options of the Dräger HPS® SafeGuard EN series and customer-specific configuration and customization of the helmet available via configurator part number 3701504		
Helmet shell size	One-size-fits-all helmet shell concept; can be continuously adjusted to fit head sizes 50–67 cm using the external adjusting wheel at the back of the helmet		
Weight	Variant	Weight (without accessories)	
	HPS SafeGuard EN	approx. 1.250 g (+/- 5%)	
	HPS SafeGuard Extend EN	approx. 1.390 g (+/- 5%)	
Dimensions	HPS SafeGuard EN	HPS SafeGuard Extend EN	
	Width: 250 mm Length: 344 mm Height: 225 mm	Width: 257 mm Length: 344 mm Height: 225 mm	
			
Helmet shell material	Thermoplastic composite consisting of fibreglass-reinforced material (PA-GF), high-temperature resistant, i.e. ambient temperatures up to 300°C do not lead to changes in the shape of the helmet shell.		

Dräger HPS[®] SafeGuard EN

Firefighting and rescue helmet












Technical Data Sheet

Helmet and components			
Shock absorption system	<p>Hybrid shock absorption system consists of two different components – foam plus suspension straps:</p> <ul style="list-style-type: none"> a) Rigid foam element made of two-component polyurethane (PUR) reinforced with aramid fabric. b) Textile crown straps made of modacrylic fibres. Optional upgradeable with comfort pad made of Nomex[®] knitted fabric one side laminated with flame-retardant foam and PES locknit. 		
Helmet colours	<table style="width: 100%; border: none;"> <tr> <td style="vertical-align: top; width: 50%;"> <p><u>a) Standard colours:</u></p> <p>White (RAL 9010) Red (RAL 3000) Signal blue (RAL 5005) Black (RAL 9005) White aluminium (RAL 9006) Yellow green (RAL 6018)</p> </td> <td style="vertical-align: top; width: 50%;"> <p><u>b) Fluorescent colours:</u></p> <p>Fluorescent yellow (RAL 1026) Fluorescent orange (RAL 2005)</p> <p><u>c) Luminescent colour:</u></p> <p>Luminescent (similar to RAL 110)</p> <p><u>d) Colours with dual function:</u></p> <p>Luminescent-yellow (similar to RAL1016)</p> </td> </tr> </table>	<p><u>a) Standard colours:</u></p> <p>White (RAL 9010) Red (RAL 3000) Signal blue (RAL 5005) Black (RAL 9005) White aluminium (RAL 9006) Yellow green (RAL 6018)</p>	<p><u>b) Fluorescent colours:</u></p> <p>Fluorescent yellow (RAL 1026) Fluorescent orange (RAL 2005)</p> <p><u>c) Luminescent colour:</u></p> <p>Luminescent (similar to RAL 110)</p> <p><u>d) Colours with dual function:</u></p> <p>Luminescent-yellow (similar to RAL1016)</p>
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Helmet shell paint system	<p>The paint system of the painted helmet shells consists of a three-layer structure of primer, topcoat paint and clear lacquer based on polyacrylate.</p>		
Interior design	<p>The helmet interior consists of the following subassemblies: front and back retainer ring, head size adjustment system with front and back carrier ring, retention system/ harness and suspension system/ crown straps with or without comfort pad.</p> <p>All materials are skin-friendly, washable and heat-resistant. All textile components are tested for harmful substances according to OEKO-TEX[®]-Standard 100 class 2.</p> <ul style="list-style-type: none"> • Front and back retainer ring made of thermoplastic composite consisting of fibreglass-reinforced material (PA-GF). • Continuously adjustable front carrier ring and adjustment system using continuous variable gear with gear box padding – alternatively available in two comfort levels: <ul style="list-style-type: none"> ➢ Nomex[®] knitted fabric (Extend version) or ➢ Eco synthetic leather (Basic version). 		

Dräger HPS[®] SafeGuard EN

Firefighting and rescue helmet





Technical Data Sheet

	<ul style="list-style-type: none"> Flame-resistant and washable three-point harness with adjustable neck strap with clamp buckle and adjustable chin strap with buckle in blue and hook-and-loop fastener. Available in sizes M or L and in two comfort levels: <ul style="list-style-type: none"> Nomex[®] with padding in the cheek area (Extend version) or Modacrylic fibres without padding in the cheek area (Basic version) Textile crown straps made of modacrylic fibres with height adjustment in three different positions. Optional upgradeable with comfort pad made of Nomex[®] knitted fabric one side laminated with flame-retardant foam and PES locknit for higher comfort level. Interior design optional upgradeable with HPS SafeGuard COM holder for use with a helmet communication unit <p><small>(Nomex[®] is a registered trademark of DuPont, OEKO-TEX[®] is a registered trademark of OEKO-TEX Service GmbH)</small></p>		
Function plate in helmet version	Version	Function plate, Basic	Function plate, Extend
			
	Option to mount a standard helmet lamp (PX1, PX1 SHORTY, PX2 or Adaro)		 
	Option to mount COM plug protector		 
Option to mount the Dräger UCF FireCore thermal imaging camera with transmission of the image to the IMD in the Dräger FPS 7000 mask		 	

Dräger HPS® SafeGuard EN

Firefighting and rescue helmet






Technical Data Sheet

Eye and face protection	
<p>Integrated face guard</p> 	<p>Made of ca. 2,9 mm high temperature Apec® material, approved in accordance with EN 14458:2018; with highest optical quality (optical class 1); continuously swivelling up and down; multiple coatings (permanent anti-fog coating inside and anti-scratch coating outside)</p> <p><u>Variants:</u></p> <ul style="list-style-type: none"> • Clear AS/AF • Gold-R1 AS/AF (with radiant heat protection level R1) • Gold-R2 AS/AF (in preparation) <p>(Apec® is a registered trademark of Covestro)</p>
<p>Integrated eye guard (optional)</p> 	<p>Made of ca. 2,7 mm high temperature resistant Apec® material with two designated grip areas on the sides; approved in accordance with EN 14458:2018, multiple coatings (permanent anti-fog coating inside and anti-scratch coating outside)</p> <p><u>Variants:</u></p> <ul style="list-style-type: none"> • Clear AS/AF • Tinted AS/AF <p>(Apec® is a registered trademark of Covestro)</p>
Optional accessory components	
<p>Neck protectors</p> 	<p>Neck protectors with plug-and-click system.</p> <p>Available in the following versions:</p> <ul style="list-style-type: none"> • Short, close-fitting Nomex® version with integrated fold • Extremely heat-resistant Alu/Nomex® version • 3-layer Dutch version made of Nomex® fabric
<p>Integrated helmet lamp Dräger HPS® FlashLight</p> 	<ul style="list-style-type: none"> • 3W high performance LED- lamp, highly heat- and flame-resistant • Hands-free operation • Optimal wearing comfort of the helmet with helmet lamp due to well-balanced weight distribution • Optimal illumination of the direct working area • Light beam in direct viewing direction • Reflector with antidazzle function optimally reduces the dazzling of teammates during operation • On /off switch on the right and left side - no accidental switching on or off possible • Integrated function and battery test • Battery warning during use

Dräger HPS® SafeGuard EN

Firefighting and rescue helmet







Technical Data Sheet

<p>Standard helmet lamps</p> 	<ul style="list-style-type: none"> • High performance lamps of series Dräger PX1, Dräger PX1 Shorty and Dräger PX2 with LED technology • Powered by commercially available AA or AAA alkaline batteries • Adaptation to the helmet possible on left and/or right side via an adapter with angle adjustment in three positions • Adaption of different lamp types and manufacturers possible via different helmet lamp adapters available, e.g. Dräger PX series, UK 4AA, PeliLite 1800, Adaro L-5/L10 etc.
<p>Helmet rear light Dräger HPS® BuddyLight</p> 	<ul style="list-style-type: none"> • Helmet rear light with LED technology as a warning and indicator light • Adapted to the back side of the helmet via an adapter with a bayonet-type connector fitted to the helmet shell by double-sided adhesive tape • Seven modes in three colours (blue, white and red) that are either continuously on/off or flashing • Powered by commercially available CR2032 coin cells
<p>Integrated helmet communication system Dräger HPS®-COM</p> 	<ul style="list-style-type: none"> • Specially developed for Dräger firefighting helmets • Modular system (2 base units + 4 microphone-options = 6 variants) for a variety of application • Easy, fast and secure adaptation via a robust metal clip, no tools needed • Excellent audio performance/ speech quality, specially adapted to human voice • Very robust and compact design with housing made of polyamide (PA) • Park position for the boom mic for stand-by operation
<p>Helmet-integrated thermal imaging camera Dräger UCF® FireCore</p> 	<ul style="list-style-type: none"> • Innovative, helmet-integrated thermal imaging camera system with simple operation and fast pairing to the display in the mask • The system consists of two separate components that are wirelessly connected to each other: The camera module (UCF FireCore), which is attached to the helmet, and the display module (FPS IMD), which is integrated into the Dräger FPS 7000 respirator mask • The FPS IMD (In-Mask Display) allows a direct view of what is happening on the scene, even under zero visibility conditions • Ergonomic integration into the protective equipment means both hands are free to concentrate on the job in hand
<p>Reflective stripes / Marking and labelling</p> 	<ul style="list-style-type: none"> • Good visibility and thus increased safety in applications with poor visibility conditions • Customised design including customer logo on front plate label • Made of heat-resistant, highly flexible, durable and retro-reflective Scotchlite™ foils of 580 series made by 3M • Customised lettering made of dimensionally stable, non-reflecting Scotchcal™ Opaque graphic film of P100 series made by 3M • Available in different colours

Dräger HPS[®] SafeGuard EN

Firefighting and rescue helmet



Technical Data Sheet

Transportation and storage	
<p>Helmet carrying bag</p> 	<p>The helmet carrying bags offers protection during transport, have an inner compartment and a business card pocket. They are made of polyester, padded with velour and have a reinforced bottom.</p> <p>The carrier bags are available in two sizes:</p> <ul style="list-style-type: none"> • large for two helmets and accessories or • small for one helmet and accessories. <p>The small bag also has a detachable, adjustable shoulder strap.</p>
<p>Helmet pouch</p> 	<p>Lightweight pouch to protect and transport a helmet</p>
Service, Maintenance and Logistics	
<p>RFID</p>  <p>Barcode</p> 	<p>RFID transponders - both LF RFID with a shorter reading range and UHF RFID with a longer range and the ability to scan several transponders simultaneously - as well as barcode labels in two sizes are optionally available for clear identification of the helmet, e.g. for use in logistics and asset management.</p>
<p>Washing bag</p> 	<p>To protect the helmets during washing in industrial tumbling washing machines with drawstring and cord stopper.</p>
<p>Repair paint sets</p> 	<p>Repair paint sets are available in various helmet colors to repair small helmet shell paint damages, eg. paint chipping</p> <p>Content: 10 ml</p>

Dräger HPS® SafeGuard EN

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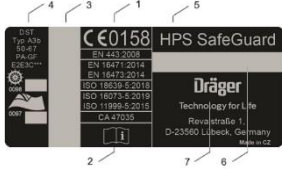



Technical Data Sheet

Training		
Helmet protection cover 	To protect the helmet against mechanical and thermal impacts and thus increase the service life of the helmet during high demanding training application (eg. flash-over training) - <u>for training purposes only!</u>	
Approvals and markings		
Approval and certification of the helmet system	EN 443:2008 Type A 3b	Helmets for firefighting in buildings and other structures, jet style helmet with integrated face guard according to EN 14458:2018, with and without neck guard
	EN 16471:2014	Firefighters helmets – Helmets for wildland fire fighting
	EN 16473:2014	Firefighters helmets – Helmets for technical rescue
	(EU) 2016/425	European Regulation on Personal Protective Equipment (PPE)
	2014/90/EU	Marine Equipment Directive (MED)
	SOLAS II-2/10.10., IMO RES. MSC.327(90)	International maritime resolution for helmets for firefighting on board ships
	ISO 11999-5:2015	PPE for firefighters who are at risk of exposure to high levels of heat and/or flame while fighting fires occurring in structures - Part 5: Helmets
	ISO 16073-5:2019	Wildland firefighting personal protective equipment - Part 5: Helmets
	ISO 18639-5:2018	PPE ensembles for firefighters undertaking specific rescue activities – Part 5: Helmets
Optional characteristics and markings	E2	Electrical insulation strength of the wet helmet and helmet shell
	E3	Indication of the non-conductive surface of the helmet shell
	C	Chemical resistance
	***	The fire helmet is designed for use at low temperatures up to -30 °C
		Marking (ship wheel) due to approval according to the Marine Equipment Directive (MED)

Dräger HPS® SafeGuard EN

Firefighting and rescue helmet

Technical Data Sheet

Service, cleaning and logistics																					
Service life	Firefighting helmets of the Dräger HPS® SafeGuard series <u>do not have a binding end of service life</u> . The real and maximum achievable service life is highly depending on environmental factors such as the conditions of storage, use, cleaning, revision and maintenance at the customer, which Dräger cannot influence.																				
Logistic information	<ul style="list-style-type: none"> Each helmet is marked with an individual Dräger serial number on the CE certification label inside the helmet <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <ul style="list-style-type: none"> 1 Monitoring body 2 Standards according to which the approval was granted 3 Serial number 4 Various markings (see table below) 5 Type of helmet 6 Date of manufacture 7 Manufacturer </div> </div> <table border="1" style="margin-left: 20px; margin-top: 10px;"> <thead> <tr> <th>Marking</th> <th>Explanation of the marking</th> </tr> </thead> <tbody> <tr> <td>DST</td> <td>Manufacturer code Dräger Safety AG & Co. KGaA</td> </tr> <tr> <td>A3b</td> <td>Type: Three-quarter shell helmet</td> </tr> <tr> <td>50 - 64/66</td> <td>Head circumference in cm</td> </tr> <tr> <td>PA-GF</td> <td>Code designation of material (glass-fibre reinforced, thermosetting plastic)</td> </tr> <tr> <td></td> <td>Symbol for "See instructions for use"</td> </tr> <tr> <td colspan="2">Optional properties and markings</td> </tr> <tr> <td>E2, E3</td> <td>Electrical insulating property</td> </tr> <tr> <td>C</td> <td>Chemical permeation resistance</td> </tr> <tr> <td>***</td> <td>The fire helmet is designed for use in temperatures as low as -30 °C</td> </tr> </tbody> </table> <ul style="list-style-type: none"> GTIN identification can be found on the label of the packaging carton. Optional marking of the helmet with Barcode label or RFID transponder is possible 	Marking	Explanation of the marking	DST	Manufacturer code Dräger Safety AG & Co. KGaA	A3b	Type: Three-quarter shell helmet	50 - 64/66	Head circumference in cm	PA-GF	Code designation of material (glass-fibre reinforced, thermosetting plastic)		Symbol for "See instructions for use"	Optional properties and markings		E2, E3	Electrical insulating property	C	Chemical permeation resistance	***	The fire helmet is designed for use in temperatures as low as -30 °C
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Cleaning	<p>The helmet can be cleaned manually or within industrial washing machine systems complete or partially disassembled.</p> <p>The manual cleaning and disinfection process is described in the Instructions for Use provided with every helmet as well as in the Technical Manual of the product.</p> <p>Dräger has tested and approved two cleaning methods for machine cleaning and disinfection of this product: reconditioning in a tumbling washing machine or in a spray nozzle type washing machine. The defined process parameters and technical conditions are described in the Technical Manual of the product.</p>																				
Packaging	Packed in folded box with an Instruction for use and a short description of the necessary individual helmet adjustments with each helmet.																				
Customs tariff number	65061010000																				
Country of origin	CZ (Czech Republic)																				