

V-Gard Head Protection System

Because your head deserves the best



*Because every life has a **purpose...***



MSA – A global leader in Head Protection

MSA has been in industrial helmets for over 50 years, and is today the world leader for workers' head protection worldwide. The V-Gard product is a proven and a well established brand, including the patented V shell design and trademark. More than 120 Million helmets have been sold. The V-Gard is the most recognised helmet in almost every region with the iconic "V".

MSA also serves a wide variety of markets with a unique range of high performance helmets:

- Fire and rescue helmets: with the unique Gallet F1 and F2 ranges, MSA protects firefighters in more than 80 countries worldwide
- Law enforcement and ballistic helmets: supplying head protection solutions to police and military around the globe
- Helicopter and jet pilot helmets





MSA V-Gard System – Applications and Needs

With the V-Gard series MSA offers four models giving performance levels to optimally suit all major industrial applications:

- Oil, Gas and Petrochemicals
- Utilities
- Mining
- Construction
- Metal Processing

Each helmet and its accessories provide a different level of protection and comfort. They should be selected depending on the hazards to which the wearer is exposed:

- Prolonged or occasional use
- Static or mobile use
- Outdoor or indoor use
- Exposure to falling objects
- High temperatures
- Liquid splashes
- Exposure to electrical risks
- Working at height
- Confined spaces or low ceilings
- Storage conditions, e.g. very low temperatures

A risk analysis of the workplace and tasks is needed to ensure the correct and most economic equipment is selected.

MSA high quality – high competency

MSA has operations on 6 continents, manufacturing high quality industrial helmets every minute, 365 days a year.

In MSA's European center of competence for head protection in France, MSA has its own, internationally accredited and certified test laboratory. Right next to the production lines and Research and Development center, helmets for industrial workers, fire fighters, police, military and jet pilots are tested every day. Modern technology in conjunction with experience in high-tech head protection assure the highest quality standards. MSA helmets exceed standards requirements for various criteria and provide best-in-class resistance and durability. For instance, penetration tests are always carried out after shock absorption to ensure continuity of protection.

Modern production methods and quality programs ensure the conformity of all helmets produced.



Industrial head protection: EN 397

The aim of an industrial safety helmet is to protect the use against falling objects and consequently brain injury and skull fracture.

Mandatory tests



Impact absorption test

- A 5 kg round striker is dropped onto the helmet from 1 meter
- The maximum transmitted force should not exceed 5 kN



Penetration test

- A 3 kg pointed cone is dropped onto the helmet from 1 meter
- The striker should not make contact with the headform underneath the helmet



Chinstrap anchorage

- Initial 150 N applied, then increased 20 N/ min until failure
- Chinstrap anchorage should release at a minimum force of 150 N



Flame test

- A burner pointing the flame at 45° to any point between 50 and 100 mm from the crown, during 10 seconds
- No visible flame after 5 seconds

Optional tests

EN 397 includes a number of optional tests on helmets where additional protection is claimed: very high (+150 °C) or very low (–30 °C) temperatures, splashes of molten metal, electrical voltages up to 440 V and lateral deformation. MSA also tested and certified products to Eurasian regulation following the GOST standard which are based on EN 397 test methods and with additional temperature performance such as –50 or +90 °C (depending on helmet model).



Arc flash resistance and electrical insulation approvals



GS-ET-29 and EN 166 Visors & Frames (See page 22-23)

- Visors certified to EN 166 personal eye protection, marking "8" - Short circuit electrical arc for 1.5 mm and 2.5 mm thick PC clear visors
- Arc flash visors tested to GS-ET-29 Class 1 - 4kA
- Arc flash visors certified to GS-ET-29 Supplementary requirements for the testing and certification of face shields for electrical works Class 2 - 7kA highest available class in GS-ET-29 standard




440 V AC from EN 397

- This test is a current leakage test performed in 3 different conditions to ensure there is no risk of the electrical current being transmitted to the wearer in case a powered wire is in contact with the helmet. The voltage used for this test is 1200 V AC

1000 V AC from EN 50365

- Electrically insulating helmets for use on low voltage installations
- They offer reliable protection against electric shock up to AC 1000 V or DC 1500 V. The voltage used for this test is 10 000 V



Antistatic testing for safe use in ATEX areas: INERIS ELECTROSTATIC testing

MSA industrial helmets and accessories are certified by the notified body INERIS to meet the requirements of EN 13463-1 non-electrical equipment for use in potentially explosive atmospheres, testing. This ensures that the equipment if used in ATEX areas cannot be the source of an electric, electrostatic or impact-induced arc or spark likely to cause an explosive mixture to ignite.



INERIS ELECTROSTATIC testing (EN 13463-1) for **MSA helmets**

Preventing electrostatic charge, all MSA V-Gard helmets are suitable for use in ATEX environments.

- Industry:
 - Dust: hazardous zones 20, 21, 22 (all zones)
 - Gas: zones 1 and 2 with gas group IIA (Propane)
- Mines: any type of extraction and any depth

INERIS ELECTROSTATIC testing (EN 13463-1) for **MSA accessories**

Tests have been done by the laboratory INERIS.

- Dust only: PC and propionate visors
- IIA/Dust: V-Gard helmets, lamp brackets, earmuffs, frame, vinyle stickers, chin guards
- IIB/Dust: ChemPro goggle, textile stickers
- IIC/Dust: Altimeter spectacles, chinstraps, knit cap

Lifetime guidelines for MSA industrial helmets

As required by European regulations, MSA provides recommendation on industrial helmets service lifetime:

Helmet shell	Storage time (when helmet not used)	Service life (in addition to the storage time)
HDPE		
V-Gard	2 years	+4 years
ABS		
V-Gard 200	3 years	+5 years
V-Gard 500	3 years	+5 years
V-Gard 520	3 years	+5 years
Nylon		
ThermalGard	3 years	+5 years



NOTE: the "date code" on the brim of your MSA helmet is the date of manufacture (shell injection), not the actual starting date of use, as the period between manufacturing and actual distribution to the worker can vary



MSA recommends writing the date of first use onto a sticker (supplied with each helmet) and then sticking into the shell. This is normally the point at which service life starts

V-Gard® – Head Protection System

Key shell features

For the V-Gard helmet shells MSA uses either HDPE (High Density Polyethylene) or ABS (Acrylonitrile Butadiene Styrene).

Both are UV stabilised materials.

- **MSA's HDPE** shells offer good resistance to shocks.
- **MSA's ABS** shells have a higher resistance to shocks and scratches and provide better lateral crushing protection.

MSA also produces shells made with **glass reinforced polyamide (Nylon)** to offer better resistance to heat deformation (+150 °C) and molten metal splash (MM).

















HDPE shell



ABS shell



Nylon shell

Model Details from page 8 to 9		Helmet shell material	Weight (including Push-Key)	Weight (including Fas-Trac III)	Peak	Rain gutter	Ventilation system	Colour options helmet shell*	Suspensions	EN 397 low temperature	EN 397 lateral deformation	EN 397 molten metal	EN 397 +150°C
	V-Gard The "all-round" helmet	HDPE	335 g	360 g	Normal					-30°C			
	V-Gard 200 vented Functional and stylish	ABS	325 g	350 g	Short	■	■		Push-Key and Fas-Trac III feature 4 point textile overhead straps for maximum comfort across the size range 52-64cm. - Push-Key slide adjustment, sewn in PVC sweatband - Push-Key slide adjustment, replaceable foam sweatband - Fas-Trac III ratchet wheel adjustment, sewn in PVC sweatband - Fas-Trac III ratchet wheel adjustment, replaceable premium foam sweatband	-30°C	■		
	V-Gard 200 non vented Functional and stylish	ABS	330 g	355 g	Short	■				-30°C	■		
	V-Gard 500 vented Comfort and protection	ABS	335 g	360 g	Normal	■	■			-30°C	■		
	V-Gard 500 non vented Fully featured for an unparalleled protection	ABS	340 g	365 g	Normal	■				-30°C	■		
	V-Gard 520 No peak safety helmet	ABS	325 g	350 g	No peak	■				-30°C	■		
	ThermalGard High temperature helmet	Nylon		430 g	Normal					Unique Fas-Trac III ratchet wheel adjustment, sewn in PVC sweatband	-30°C	■	■

To easy get your individual helmet configuration, please use MSA configurator.

*Any non-standard colour can be supplied with a minimum order quantity. Please contact us for details. Not applicable to ThermalGard range.

Head Protection System

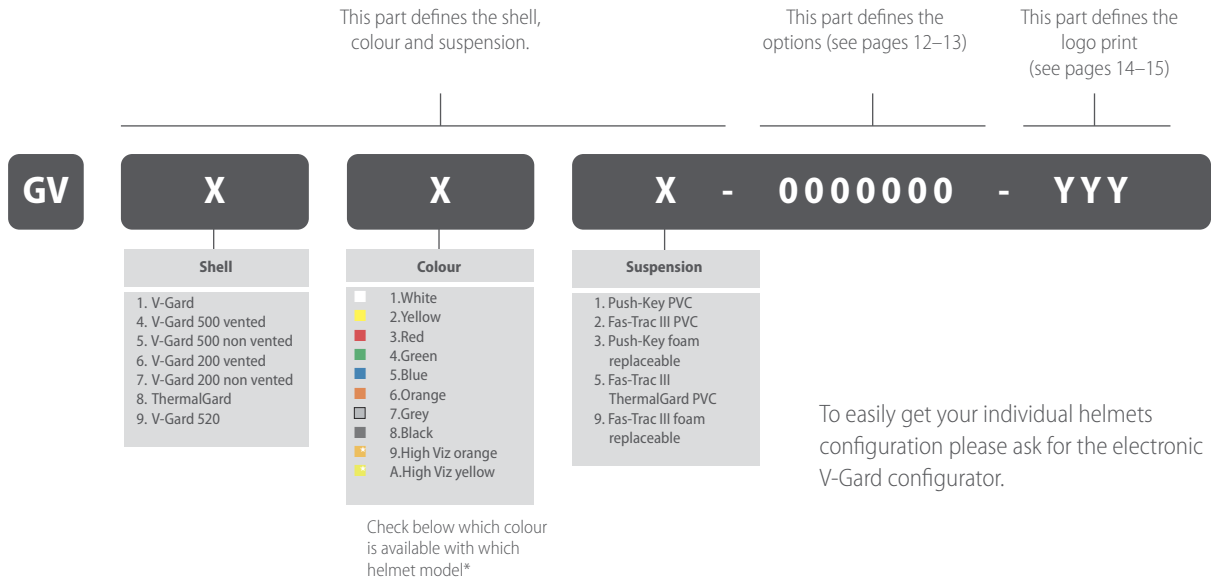
MSA helmets are designed to have many options and can be used with a wide range of accessories fully approved as an integrated head protection system.



Approvals				Options Details from page 12 to 15						Spare parts Details on page 16		Accessories compatibility Details from page 17 to 29							
EN 397 440 V AC	EN 50365 (1000 V AC)	INERIS ELECTROSTATIC TESTING (EN 13463-1)	Additional Eurasian (EAC) options	Chinstraps	Lamp bracket	Reflective stickers	Individual Naming Stickers	Badge holder	Logo customisation	Sweatbands and suspensions	Frames and visors	Earmuffs	Winter liners, cooling pads and neck capes	Goggle attachment	Stow-away eye protection				
■	■	Zone 1, 2, 20, 21, 22	GOST -50°C	2-point 3-point (Fas-Trac III)	Plastic front Metal front Plastic side	Sticker options: 2 materials, 3 colours, 2 shapes	Naming Stickers transparent or white		■	■	■	■	■		■				
		Zone 1, 2, 20, 21, 22							■	■	■	■	■	■	■			■	
■	■*	Zone 1, 2, 20, 21, 22							■	■	■	■	■	■	■	■			■
		Zone 1, 2, 20, 21, 22							■	■	■	■	■	■	■	■	■	■	■
■	■	Zone 1, 2, 20, 21, 22						2-point 3-point (Fas-Trac III) 4-point				■	■	■	■	■	■	■	■
■	■		GOST -50°C										■	■	■	■	■		■

V-Gard® – Helmet Range

The V-Gard helmet range uses a specific part numbering system to enable each configuration to have a unique part number attached to it.



V-Gard

Solid "all-round" helmet



- The Original V-Gard, most popular style worldwide, >120 Million sold
- Reliable, UV stabilised HDPE helmet shell
- For many industrial applications the ideal and most economic solution
- ELECTROSTATIC-INERIS certified (testing according to EN 13463-1). Suitable for use in ATEX environments hazardous zones 1, 2, 20, 21, 22
- Economic electrician helmet meeting EN 397 440 V AC and EN 50365
- GOST certified (-50°C)



V-Gard 200

Functional and stylish

Vented version



UV stabilised ABS helmet shell offers good resistance to scratches

- Lightweight
- Stylish design
- Short peak for improved upward vision
- Effective ventilation system with larger holes on the upper part: most ventilated helmet of the market with 445 mm² of ventilation holes
- Limited rain gutter
- Provides lateral crushing protection
- ELECTROSTATIC-INERIS certified (testing according to EN 13463-1). Suitable for use in ATEX environments hazardous zones 1, 2, 20, 21, 22

Non vented version



Benefits as described for vented version plus:

- Ideal electrician helmet meeting EN 397 440 V AC and EN 50365 1000 V AC



V-Gard 500

Comfort and protection

Vented version



UV stabilised ABS helmet shell offering good resistance to scratches

- Provides lateral crush protection
- Built-in rain gutter for outdoor operations
- Ideal design for adapting earmuffs, visors or attaching headband of MSA eyewear with goggle adapter
- ELECTROSTATIC-INERIS certified (testing according to EN 13463-1). Suitable for use in ATEX environments hazardous zones 1, 2, 20, 21, 22
- Ventilation holes on the upper part for optimized airflow
- V-Gard 500 helmet can be delivered with a badge holder on the front (see page 12)

Non vented version



Benefits as described for vented version plus:

- Ideal electrician helmet meeting EN 397 440 V AC and EN 50365 1000 V AC



V-Gard 520

Non vented peakless safety helmet for work at height or confined spaces



Selection of 2, 3 or 4 points chinstrap (not fitted onto the helmet)

- UV stabilised ABS helmet shell offers good resistance to scratches
- Provides lateral crush protection
- Built-in rain gutter for outdoor operations
- Ideal design for adapting earmuffs, visors or attaching headband of MSA eyewear with goggle adapter
- ELECTROSTATIC-INERIS certified (testing according to EN 13463-1). Suitable for use in ATEX environments hazardous zones 1, 2, 20, 21, 22
- Ideal electrician helmet meeting EN 397 440 V AC and EN 50365 1000 V AC
- V-Gard 520 helmet can be delivered with a badge holder on the front (see page 12)



ThermalGard

Safety helmet for use in high temperature environments



- Glass reinforced polyamide (Nylon) injected shell
- High temperature resistance +150°C EN 397 and low temperature resistance -50°C GOST option
- Protection against molten metal
- Provides lateral crush protection
- Special Fas-Trac III ThermalGard suspension with ratchet
- Selection of high-temperature frame, visors and flame retardant winter liners



*Any of the standard color not listed for an individual helmet (excluding ThermalGard) can be supplied with a minimum order quantity. Please contact us.

A big step forward on comfort and ease of use

- 4 suspensions :
 - **Push-Key with slide adjustment** and sweat-wicking **foam sweatband**
 - **Push-Key with slide adjustment** and wipeable **PVC sewn in sweatband**
 - **Fas-Trac III with wheel ratchet** and sweat-wicking **foam sweatband**
 - **Fas-Trac III with wheel ratchet** and wipeable **PVC sewn in sweatband**
- Overhead straps made of woven polyester providing high comfort and long term, consistent shock absorption performance
- Ensures consistent performance and comfort level even under the influence of moisture or low temperatures
- Sophisticated 4 point attachment: good positioning, stability and better air circulation
- Ideal positioning of the harness through height and length adjustment: perfect for use with face masks
- Self-adjusting textile crown straps for fast height adjustment and comfortable fit

Push-Key®

Changing helmets? Push-Key suspension, a simple push changes everything

The Push-Key suspension with its innovative adjustment concept brings an extraordinary way to enhance user retention and comfort. Push-Key, the new suspension with the best cost-benefit ratio offered in the market. So there is no denying how much a simple "Push" changes everything!

EASE OF USE



1 Push button to loosen



SURE FITTING



3 Squeeze to tighten



2 Integral, perforated sweatband puts barrier between **HEAD** and **HEADBAND**

1

EASE OF USE

- This is the fastest sliding suspension on the market: simple push to loosen, squeeze to tighten
- Can be adjusted with one hand even when worn

2

SWEATBAND COMFORT

- 2 different options: sewn in PVC perforated wipeable or sweat-wicking foam

3

SURE FITTING

- It offers greater retention capacity than competitive sliding suspensions because it's so much easier to select the best adjustment position.

Fas-Trac® III

Headache? Fas-Trac III suspension is the cure!

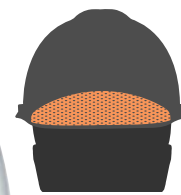
Extensive customer research showed the Fas-Trac III suspension was preferred by most users over what they were currently wearing because it improved helmet comfort, retention and stability whilst being easy to use with or without gloves.



The lower nape strap increases **BALANCE & STABILITY**



1



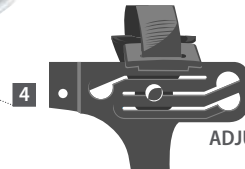
Integral, perforated sweatband puts barrier between **HEAD** and **HEADBAND**

5



and improved **AIRFLOW**

2



3
Levels of **ADJUSTMENT**

4



3

1

BALANCE & STABILITY

- Lower nape strap improves retention: helmets stay on when leaning over
- Adjusts for a custom fit to the back of the head

2

HEADBAND COMFORT

- The comfort pad by separating the ratchet from the head, cradles the head increasing comfort and cooling airflow
- Prevents hair from getting pulled

3

EASE OF USE

- Ratchet offers smooth rotation: reduced effort to turn
- Easy grip knob adjustable even with gloves on

4

ADJUSTABILITY

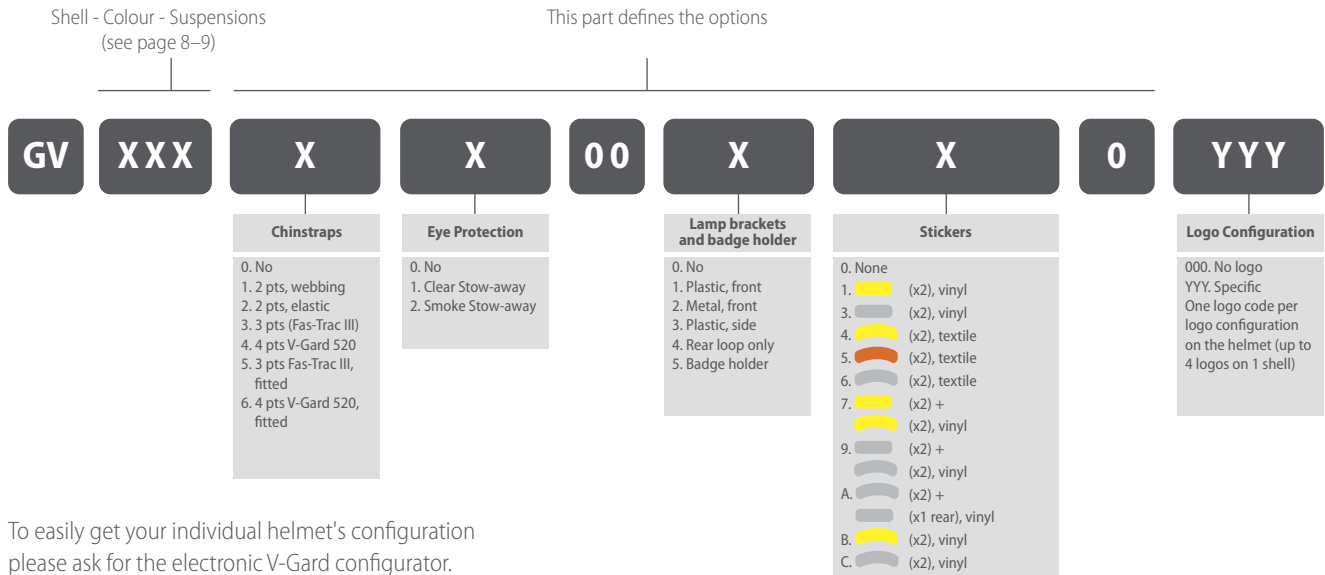
- Three levels of nape height adjustment giving superior nape fit
- Avoids interference with other PPE such as earmuffs

5

SWEATBAND COMFORT

- Largest sweatband surface area on the market covers more of the headband and user's forehead for increased comfort
- 2 different sweatband options: sewn in PVC perforated wipeable or sweat-wicking washable (see details on page 16)

When you need more than just a helmet MSA offers you various options providing additional protection, comfort levels and adaptations for environmental conditions.



Chinstraps

MSA chinstraps ensure a secure fit and stability.

- Easy to attach and remove from the shell thanks to plastic hooks
 - Reliable, comfortable and adjustable
 - Zebra design using contrast colours for webbing versions: highly visible
 - 3 point version is perfectly adapted for work at height and doesn't interfere with the earmuffs
- All MSA chinstraps comply with the requirements of EN 397 when fitted to our range of V-Gard industrial safety helmets.



Part No	Description
9100001	2 point chinstrap webbing (1)
B0259378	2 point chinstrap elastic (2)
10147559	3 point chinstrap (valid for all helmets with a Fas-Trac III suspension) (3)
10148055	4 point chinstrap webbing (only valid for V-Gard 520) (4)

Badge holder for V-Gard 500/520

The robust badge holder at the front is highly valuable for industries or construction sites when several operators are involved in the same work area. A business card, a magnetic access control badge or cards with worker specific "InCaseOfEmergency" information, authorisation and licences can be inserted.

- Transparent plastic embossed to avoid scratches damage
 - Robust and watertight for outdoor applications
 - Ultra sonic welding which resists a tearing test of more than 10 kg
- Must be ordered together with the helmet.



Lamp attachments

MSA offers 3 optional lamp brackets which are mounted in the production process (must be ordered together with the helmet): plastic front, metal front, plastic side (MSA offers ATEX lamps – XS, XP LED and XP Xenon).

V-Gard and V-Gard 500 with the plastic lamp brackets keep their electrical insulation (EN 397 440 V AC) and antistatic properties.

Part No	Description
Options when ordering a helmet	Plastic lamp bracket for helmet front, black retention clip in the rear (1)
	Metal lamp bracket for helmet front, transparent retention clip in the rear (2)
	Plastic lamp bracket fixed on the right side of the helmet, for MSA PELI lamps (XS, XP, XP LED) (3)
GA1466	Lamp XS, LED, ATEX Zone 0 (only for plastic side bracket) (4)
GA1457	Lamp XP, Xenon, ATEX Zone 1 (only for plastic side bracket)
GA1464	Lamp XP LED, ATEX Zone 0 (only for plastic side bracket)

Other configurations available (please contact us):

- Rear loop only: retention clip transparent in the rear
- Metal lamp bracket for helmet front, without rear loop
- Plastic lamp bracket for helmet front, without rear loop
- Metal lamp bracket front and plastic lamp bracket fixed on the right side of the helmet
- Badge holder in front, plastic lamp bracket fixed on the right side of the helmet



(1)



(2)



(3)

(4)

Reflective stickers

In many working conditions wearing high-visibility clothes is mandatory. The MSA stickers increase the visibility of the wearer, especially when used in low light conditions to increase the contrasts (when illuminated by a light source, such as headlights).

- EN 471 compliant
- Durable material

Available in various colours, materials and shapes:

- Straight or curved (better visibility from the top for applications such as crane driver and workers on the ground)
- Vinyl (economic) or textile (premium quality)
- Orange, grey or yellow

MSA reflective stickers can be mounted within the production process (see the configurator on page 12) or can be ordered separately as an accessory (with the following part numbers):

Type	Yellow	Orange	Silver
Stickers (2 pcs), straight, vinyl (1)	GA90002-JO	N/A	GA90002-BO
Stickers (2 pcs), curved, textile (2)	GA90001-JO	GA90001-RO	GA90001-BO
Stickers (2 pcs), curved, vinyl	GA90003-JO	N/A	GA90003-BO



(1)



(2)



Logo customisation

Why to customise your helmet ?

- Use PPE as a **branding vector** for the company on site
- **Strengthen the pride of your workers** as a company or in a community
- **Promote the safety image** of your company
- **Spread messages** to the workers eg. "Think Safety"
- **Promote a specific event** such as "year of", "50 years of the company..."
- **Identify your workers** when they are operating on construction sites along with other contractors
- **Identify the particular status or function** of the wearer such as "Safety officer", "Team Manager", "Maintenance"
- **Identify** the first aid workers



Pad printing service

MSA integrated process includes made in France clichés/plates, ink mixture, production

- One sentence has been removed
- Top-quality printing, durable and weather-proven
- Up to 4 logos per helmet can be printed (front, rear, left, right). On V-Gard 500, logo on peak is also possible.
- Possible to print logo, pictures and text
- Minimum order quantities start with 20 helmets
- 2 colour technologies:
 - **Pantone**: solid colour or colour gradient, up to 8 colours per logo
 - **Image 2000™ Service**: unique feature of MSA Logo Express premium printing 4C process, you can even print pictures or very complicated logos, relevant using high colour. White background needed except on white shells.



MSA's highly skilled graphic artists will accurately blend your logo to give an outstanding rendering when it's printed across the curve of the shell!



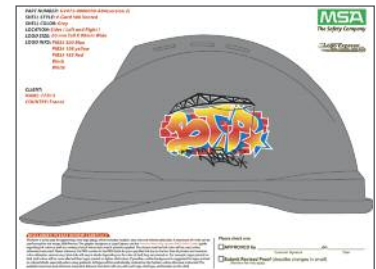
Logo Express easy process

For new logo:

1. Select your helmets
2. Send your vectorial logo (eps, ai, cdr) or high resolution bitmaps (bmp, jpg, tif) with the info on 4C or pantone colour code and logo size to your local distributor.
3. Approve as soon as possible the validation form your distributor will send you within 3 days.
4. MSA produces your logoed helmets within 10 working days (for helmet orders >320 pcs MSA has to confirm individually).

For existing logo:

1. Just place the order with your dedicated P/N (for each logo configuration a dedicated P/N)
2. MSA produces your logoed helmets within 10 working days (for helmet orders >320 pcs MSA has to confirm individually).



Validation form

Table with helmet models and dimensions per side

Models	Peak	Front	Sides	Rear
V-Gard	N/A	60 x 90 mm	60 x 90 mm	60 x 90 mm
V-Gard 200	N/A	60 x 90 mm	60 x 90 mm	60 x 90 mm
V-Gard 500	30 x 30 mm	60 x 90 mm	60 x 90 mm	30 x 80 mm
V-Gard 520	N/A	60 x 90 mm	60 x 90 mm	30 x 80 mm

Please contact us for any specific requests such as bigger dimensions or different locations than standard ones. MSA integrated Logo Express department can support you with their expertise.

Individual naming

MSA offers a front badge ID card holder option, identifying each worker on site. If you require individual naming MSA's cost effective solution is to use individual named stickers, allowing individual traceability of the PPE.

- Sticker adhesive and colorants preselected to ensure no long term effects on shell materials
- Minimum order quantity: 40 pieces (mixed names)

Part No	Description
GA90029	Sticker white (11,2 x 1,2 cm)
GA90025	Sticker transparent (11,2 x 1,2 cm) -not recommendaed for darker shell colours black, grey, blue, green etc.

Sticker approved with all MSA helmets during penetration and shocks tests, and after hot and cold conditioning.

How to proceed ?

1. Just **ask your local MSA contact** to get the Excel form and **provide us with the list** of your workers.
2. **You will receive** then the individual stickers easily applied by the end user when the helmet is delivered.

Names and information supplied covered by EU data protection directive.



Sweatbands

MSA helmets have suspensions with sewn in PVC or optional foam replaceable sweatband.

- Fas-Trac III features a replaceable premium foam sweatband which is machine washable for maximum comfort
- The compact Push-Key foam sweatband is easily replaceable



V-Gard 500 Push-Key with foam sweatband



V-Gard 500 Fas-Trac III with foam sweatband



V-Gard 500 Fas-Trac III with Terri-Band sweatband

Sweatband / helmet suspensions: Compatibility matrix

				Suspension spare part number	10162507 Push-Key with sewn in PVC sweatband	10162508 Push-Key with replaceable foam sweatband	10162752 Fas-Trac III with sewn in PVC sweatband	10162755 Fas-Trac III with replaceable, washable premium foam sweatband	10162753 Fas-Trac III with sewn in PVC sweatband for ThermalGard
				ATO Hemets P/N	GVxx1	GVxx3	GVxx2	GVxx9	GVxx5
Sweatbands	Part No	Product Description	Material	Washable	Compatibility sweatband / suspensions				
	3335612-SP	Push-Key foam sweatband (10 pcs)	Foam	No	–	■	–	–	–
	10153518	Fas-Trac III premium foam sweatband (10 pcs)	Breathable foam	Yes	–	–	■*	■	■*
	696688	Terri-Band sweatband (10 pcs)	Terrycloth	Yes	■*	■*	■*	■*	■*

*Fits over existing sweatband

Suspensions spare parts

For hygienic reason and depending on user inspection, suspensions should be changed regularly. Also discover the visitor cap non woven accessory which can be used below all MSA suspensions.

Part No	Description
10162507	Push-Key slide adjustment and sewn in PVC sweatband (1)
10162508	Push-Key slide adjustment and replaceable foam sweatband
10162752	Fas-Trac III ratchet adjustment and sewn in PVC sweatband
10162755	Fas-Trac III ratchet adjustment and washable, replaceable premium foam sweatband (2)
10162753	Fas-Trac III ratchet adjustment and sewn in PVC sweatband - for ThermalGard only
D6178016	Visitors cap nonwoven helmet liner (3)

(1)



(2)



(3)



V-Gard accessory system is an integrated solution to protect your face, eyes, neck and chin. Frames, visors and chin protectors have been designed and certified as a system with MSA helmets and brow guard to ensure product compatibility, a crucial component of compliance and safety. With its truly global platform, MSA offers ideal protection around the globe.

V-Gard – Frames



Standard frames

- Slot adapters compatible with all MSA helmets and included in each frame package
- Suitable for electrical applications as standard frame contains no metal parts
- Sloped design makes it easy to clean the frame as rubbish just slides off the frame
- Works with or without earmuffs - Adapter is stowable in case you use earmuffs, no more lost parts
- Standard frames can be ordered with or without debris control
- Replaceable debris control creates a tight seal between helmet and frame reducing potential ingress of contaminants
- Elevated Temperature (ET) version designed to withstand temperatures of 177 °C without warping, cracking or crazing

Universal frames

- Heavy-duty, flat rubber strap allows easy and secure placement of universal frame on a helmet
- Pivot location leaves accessories slots open so that other safety equipment like existing earmuffs can be used
- Sloped design makes it easy to clean the frame as rubbish just slide off the frame
- Universal frames can be ordered with or without debris control
- Replaceable debris control creates a tight seal between helmet and frame reducing potential ingress of contaminants
- Suitable for electrical applications as universal frame contains no metal parts

Standard frames		
	V-Gard standard frame	10121266
	V-Gard standard frame Elevated Temperature (ET) version	10121267
	V-Gard standard frame with debris control	10115730
	Standard frame slot adaptor replacement	10117496

Universal frames		
	V-Gard universal frame	10121268
	V-Gard universal frame, with debris control	10115822
	Universal frame heavy duty rubber strap replacement	10117495

Standard & universal frames		
	Debris control replacement, for standard and universal frame	10117539

V-Gard Headgear – Brow guard



All V-Gard visors are designed to fit MSA's V-Gard Headgear brow guard. From MSA, one visor that fits both helmets and brow guards for when you only need face protection.

Please see the separate V-Gard Headgear leaflet.

V-Gard – Visors

Choosing the proper V-Gard visor

Material	Polycarbonate	Suitable for most applications where impact and splash hazards exist. Available in a variety of sizes and thicknesses, sheet or injection moulded versions. Moulded visors are optically corrected and therefore offer very good view and reduce fatigue during work. Their chemical and heat resistance is better as they are thicker and not as stressed as flat visors. Flat visors are the perfect solution for general and basic applications offering a good price/performance ratio.
	Mesh	Provides maximum ventilation in humid working conditions. Lightweight and durable great for outdoor applications such as brush clearing and trimming. Does not provide splash protection.
	Propionate	Provides superior chemical splash resistance mainly against organic chemicals such as solvents. Available in injection moulded version for a great optical quality and reliable resistance not as stressed as flat visors.
	Polycarbonate Blend	Patented blend of dyes and nano particles embedded into a polycarbonate matrix manufactured by injection molding. Used for special arc flash visors to protect against effects from an arc flash: high levels of ultraviolet radiation, convective heat and flying debris.
Colour / Tint	Clear	Provides maximum light transmission. Good for indoor use applications, or outdoor use in low-light conditions.
	Green tint	Helps alleviate eye strain and fatigue by reducing excessive glare and light transmittance. With Ultraviolet (UV) filter, great for outdoor use in bright light conditions.
	Shade 3 IR / Shade 5 IR	Helps protect against infrared (IR) up to Shade 3 and Shade 5, as applicable, as well as ultraviolet (UV) radiation. Perfect for autogenous welding, metal pouring, gas soldering, light cutting and brazing applications.
	Light green ArcFlash visor	Due to the blend of dyes and nano particles embedded into a polycarbonate matrix this visor is light green (does NOT offers welding or glare protection). It offers highest Visual Light Transmission class according to GS-ET-29 = VLT Class 0. Maximum light transmittance and colour recognition.
Coatings	Anti-fog	Controls condensation build-up on inside of visor surface. Great for humid conditions.
	Anti-scratch	Provides excellent scratch resistance, extending visor life. A “must have” in abrasive work environments.
	Reflective	Reflects radiant heat, keeping the wearer comfortable in elevated temperature environments, such as manufacturing plants with blast furnaces. Available in clear and green tint.
Options	Chin protectors	V-Gard chin protectors provide additional protection to the face and neck from impacts, chemical splash and arc flash making them suitable for applications in forestry, chemical industry, utilities, etc.
	Debris control	Provides additional protection against debris and chemical splash and reduces the possibility of debris or chemical entry between the visor frames and the front of the helmet.

Markings on frames and visors according to EN 166

Filter class and scal number

- Increases with decreasing luminous transmittance through the visor:

2	Ultra violet radiation
2-C	UV radiation with enhanced colour recognition
2C-1.2	UV filter with enhanced colour recognition, light transmission 74.4%–100 % (UV EN 170)
2-2	UV filter, light transmission 29.1%–43.2 % (UV EN 170)
4-3 / 3	Shade 3 filter according to EN 171 (IR) and EN 169 (welding)
4-5 / 5	Shade 5 filter according to EN 171 (IR) and EN 169 (welding)

Optical quality

1	Highest optical quality for permanent use
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Mechanical strength

F	High speed particles with low energy impact (45 m/s)
B	High speed particles with medium energy impact (120 m/s)
T	Additional resistance at extreme temperatures (-5 and +55 °C)

Field of use

- Offers protection against:

3	Liquid droplets and splash
8	Short circuit electric arc
9	Non-adherence of molten metal and resistance to penetration of hot solids
K	Resistance to surface damage by fine particles
N	Resistance to fogging
R	Enhanced reflectance >60% in the infrared (780-2000 nm)

For GS-ET-29 markings please see page 23



Chemical application quick reference guide

The results shown in the table below were obtained under lab conditions ($23 \pm 2^\circ\text{C}$ and $25 \pm 5\%$ relative humidity) in the MSA test labs. For testing purposes, V-Gard visors were secured to V-Gard frames in the “as worn” position.

Because each working environment is unique it is recommended you test your selected visor to see actual performance based on external factors and individual chemicals blend and concentrations. The results shown in this Quick Reference Guide are intended as a guide only to help in the selection of the proper V-Gard face protection products. While the table shows the performance against certain chemicals, it is not intended to be all-inclusive and such testing is not required by safety standards.

Use only V-Gard frames or V-Gard Headgear with V-Gard visors. Other product combinations are not certified and may not function as intended.

Chemical Family	Representative Chemical	Polycarbonate clear flat sheet (1–1.5 mm thick), uncoated (10115836, 10115837, 10115863, 10115840)	Polycarbonate clear flat sheet (1.5 mm thick), coated (10154949, 10154950, 10154961, 10154962)	Polycarbonate moulded, clear (2.5 mm thick), coated (10115844, 10115853, 10115845)	Propionate clear moulded (2.5 mm thick), uncoated (10115851, 10115855, 10115856)
Organic Chemicals					
Alcohol	Ethanol	***	***	***	***
Aldehyde	Butyraldehyde	NR	NR	*	*
Aliphatic Hydrocarbon	Gasoline	*(1)	NR	***	*
Aromatic Hydrocarbon	Toluene	NR	NR	*	*
Ester	Butyl acetate	NR	NR	*	*
Ether	Ethyl ether	*	*	*	*
Ketone	Methyl isobutyl ketone (MIBK)	NR	NR	NR	*
Inorganic Chemicals					
Inorganic acid	Hydrochloric acid (35% wt)	***	NR	***	***
Inorganic base	Ammonium hydroxide (28% wt)	***	***	***	***
	Sodium hydroxide (25% wt)	***	NR	***	***
Other					
Bug spray	DEET	NR	NR	*	*

⁽¹⁾ Not Recommended (NR) against this chemical when using a PC, clear flat, uncoated, 1.52 mm visor (10115840).

Three-star (*):** No cracking observed on visor under microscope after chemical spray. Only negligible haze may have been observed. The visor passes impact testing at 120 m/s after spray.

Two-star ():** No cracking observed on visor under microscope after chemical spray. Slight haze may have been observed, but an assessment of the extent of visor usability as a result is subjective. The visor passes impact testing at 120 m/s after spray.

One-star (*): No cracking observed on visor by un-aided eye after chemical spray. Visible haze may have been observed, but an assessment of the extent of visor usability as a result is subjective. The visor passes impact testing at 120 m/s after spray.

NR (not recommended): Crack(s) and/or severe warp and/or severe haze (i.e., that which renders the visor unusable) can be observed on visor after chemical spray; or the visor fails impact testing at 120 m/s after spray.

In all cases, visor should be inspected and replaced if damaged in any way that renders it unusable in a particular environment.

Visors for general use

- Polycarbonate sheet visors reliably protect against impact, chemical splash and ultraviolet radiation
- Visors are contoured for a closer fit and improved resistance to impact and splash hazards
- Good optical quality allows permanent use
- 2 thickness depending on your needs and budget
- Can be worn with helmet mounted earmuffs
- Available with premium anti-fog/-scratch coatings
- Modified “nitrometer” versions, to fit V-Gard chin protectors
- Visors with green tint help alleviate eye strain and fatigue by reducing excessive glare, especially in natural daylight



	Sheet V-Gard visor, PC, clear, 203x432x1 mm EN 166 (2C-1,2 1B)	10115836 10115837*	■ ■	■*	■ ■			■ ■			
	Sheet V-Gard visor, PC, clear, 241x432x1 mm EN 166 (2C-1,2 1B)	10115863	■		■			■			
	Sheet V-Gard visor, PC, clear, 203x432x1.5 mm EN 166 (2C-1,2 1B 389)	10115840	■		■			■		■	EN 166/8
	Sheet V-Gard visor, PC, clear, AF/AS, 203x432x1.5 mm EN 166 (2C-1,2 1B 389 KN)	10154949 10154950*	■ ■	■*	■ ■	■ ■	■ ■	■ ■		■ ■	EN 166/8 EN 166/8
	Sheet V-Gard visor, PC, green tinted, AF/AS, 203x432x1.5 mm EN 166 (2-2 1 B 39 KN)	10154961 10154962*	■ ■	■*	■ ■	■ ■	■ ■	■ ■	■ ■	■ ■	

* For chin protector adaptation (retractable chin protector: 97 mm in height, standard chin protector: 72.6 mm in height).

Visors for chemical and general splash protection

V-Gard propionate visors provide good impact and splash protection especially for those applications where chemical splash hazards exist. They are moulded and thicker with higher impact resistance than comparable acetate visors in the marketplace. Superior optical quality for permanent use.

	Moulded V-Gard visor, Propionate, clear, 203x432x2.5 mm – EN 166 (MSA 1B3)	10115855 10115856*	■ ■	■*	■ ■
	Moulded V-Gard visor, Propionate, clear, 235x457x2.5 mm – EN 166 (MSA 1B3)	10115851			■

* For chin protector adaptation (retractable chin protector: 97 mm in height, standard chin protector: 72.6 mm in height).



Visors for sophisticated purpose

V-Gard PC moulded visors keep workers safe and comfortable in environments such as steel/smelting plants where they are exposed to high levels of heat and/or excessive glare. They are developed for heavy duty use and are thicker than most visors in the marketplace, which not only ensures impact resistance, but also reduces heat warping. Moulded for superior optical quality.



	Moulded V-Gard visor, PC, clear, AF/AS 235x432x2.5 mm EN 166 (2C-1,2 1BT 389 KN)	10115844	■	■	■	■	■		■	■ ⁽¹⁾	■
	264x432x2.5 mm EN 166 (2C-1,2 1BT 389 KN)	10115853	■	■	■	■	■		■	■ ⁽¹⁾	■
	Moulded V-Gard visor, PC, green tinted, AF/AS 235x432x2.5 mm EN 166 (2-2 1BT 39 KN)	10115845	■	■	■	■	■	■	■		■

⁽¹⁾ Tested according to GS-ET-29 class 1 (4kA)

Visors for welding, cutting and brazing protection

V-Gard PC shaded moulded visors protect against damage from impact and infrared (IR) radiation. Designed for autogenous welding, metal pouring, gas soldering, and light cutting/brazing, they have been engineered for heavy-duty use. They are thick for high impact and heat resistance.



	Moulded V-Gard visor, PC, Shade 3 IR 203x432x1.8 mm EN 166 (3.0/4-3 1BT 39)	10115859	■		■	■	■
		10115860*	■	■*	■	■	■
	Moulded V-Gard visor, PC, Shade 5 IR 203x432x1.8 mm EN 166 (5.0/4-5 1BT 39)	10115861	■		■	■	■
		10115862*	■	■*	■	■	■

* For chin protector adaptation (retractable chin protector: 97 mm in height, standard chin protector: 72.6 mm in height).

Visors for radiant heat and elevated temperature protection

V-Gard polycarbonate reflective coated visors deflect a significant amount of heat. The reflective coating helps filter IR radiation and dissipate radiant heat. They are EN 166 'R' certified: spectral reflectance of IR between 780nm and 2000nm is >60%, helping to protect skin and eyes from IR exposure. Clear or tinted versions are available for dark vs. glare-riddled environments.



	Moulded V-Gard visor, PC, clear reflective coated 241x450x1.8 mm - EN 166 (2C-2,5 1BT3R)	10115848	■	■	■
	Moulded V-Gard visor, PC, green reflective coated 241x450x1.8 mm - EN 166 (2-4 1BT3R)	10115850	■	■	■

Arc flash visors and electrician kits



The risks from arc flash include ultraviolet and infrared radiation, intense light, convective heat and flying debris. Temperatures can reach 19,400 °C at the arc terminals. Appropriate PPE is crucial even though there is no common global standard against arc flash hazards. MSA offers appropriate, EN regulated, head and face protection, which should be selected according to each individual risk assessment.

Arc flash visors EN 166

EN 166 marking "8" indicates visors and frames which protect against an open circuit electric arc of 12 kA max, 380-400 V, 50 Hz nominal for 1 sec max. The requirements are: metal free, defined face coverage, visor thickness minimum 1,4 mm with a scale number of 2-1,2 or 2C-1,2.

Arc flash visors GS-ET-29

GS-ET-29 "Supplementary requirements for the testing and certification of face shields for electrical works" first published in 2010 by German DGUV. Whilst an equivalent EN standard is in preparation, some users require visors certified for GS-ET-29. This is "Arc-in-the-Box" testing with parameters of 400 V AC; 50 or 60 Hz for 500ms and has 2 classes:

Class 1: 4 kA, 135kJ/m³

Class 2: 7 kA, 423kJ/m³

The main difference to EN166 "8" is measurement of the temperature behind the visor at eye, mouth and chin level of the test head - maximum safe temperatures are given, to ensure that users will not be injured.

Please see the MSA website for the video on GS-ET-29 arc flash testing.

MSA visor GS-ET-29 class 1= 4 kA and EN 166

- Made of 2.5 mm thick moulded polycarbonate
- Protects from electric arc, molten metal, chemical splashes, high temperatures, flying debris and UV radiation.
- Resistant to impacts EN 166 "B" at extreme temperatures "T"; electric arc and molten metal EN 166 "8" & "9" and GS-ET-29 Class 1
- Optically corrected to give a very clear view and reduce fatigue during use
- Premium anti-fog and anti-scratch coatings approved EN 166 "KN" on both sides
- Two versions: standard and extended coverage
- Ergonomically shaped to perfectly fit with helmet mounted earmuffs

MSA visor GS-ET-29 class 2= 7 kA and EN 166

- Patented injection moulded blend of dyes and nano particles in a polycarbonate matrix
- Superior protection from electric arc, convective heat, high temperatures, flying debris and UV radiation
- GS-ET-29 Class 2 (7 kA), EN166, EN 170 certified
- Light green – offers highest visual light transmission according to GS-ET-29 (VLT Class 0) providing maximum light transmittance and colour recognition, under typical working conditions additional lighting may not be required
- Optically corrected to give a very clear view and reduce fatigue during use
- Good face coverage in the most compact design
- Anti-fog coating
- 2 visor versions: earmuff compatible or with extended ear protection
- Retractable chinguard certified in combination to protect the neck
- Certified in combination with MSA electrician helmets V-Gard, V-Gard 500 (unvented) and V-Gard 520



MSA arc flash set before "arc-in-the-box testing" 7 kA



Arc flash 7 kA



GS-ET-29 class 2-7 kA certification passed. Head and face combination protects the wearer

Electrician Kit Basic EN 166

Components are pre boxed. Ideal for applications with limited arc flash risks.

- Helmet, V-Gard white with Push-Key suspension, PVC sweatband (EN 397 440 V AC and EN 50365)
- V-Gard frame (EN 166: 389 BT)
- Electrician visor basic - V-Gard sheet visor, 203x432x1,5mm (EN 166 2C-1,2 1B 389)



Part No	Description
GV111-0024000-000	Basic Electrician Kit

Electrician Kit Premium EN 166 & GS-ET-29 class 2 (7 kA)

Most compact arc flash set GS-ET-29 class 2 available today!

Components are pre boxed. Ideal set for applications requiring arc flash protection, especially in confined spaces.

- Helmet, V-Gard 520 white with Fas-Trac III ratchet suspension, replaceable foam sweatband (EN 397 440 V AC and EN 50365 GS-ET-29 Class 2)
- V-Gard frame (EN 166: 389 BT; GS-ET-29 Class 2)
- Electrician visor Premium - V-Gard arc flash visor compatible with earmuffs, retractable chin guard (EN 166 and GS-ET-29 Class 2 EN 166 2C-1.2 1 B 8 - 2 - 0 3)



Part No	Description
GV919-0029000-000	Premium Electrician Kit EN166 and GS-ET-29 class 2

	Description	Part No	EN 166 8	GS-ET-29 class 1	GS-ET-29 class 2
	Sheet V-Gard visor, PC, clear, 203x432x1.5 mm EN 166 (2C-1,2 1B 389)	10115840	■		
	Sheet V-Gard visor, PC, clear, AF/AS, 203x432x1.5 mm EN 166 (2C-1,2 1B 389 KN)	10154949 10154950*	■		
	Moulded V-Gard visor, PC, clear, AF/AS 235x432x2.5 mm 264x432x2.5 mm EN 166 (2C-1,2 1BT 389 KN, GS-ET-29 class 1)	10115844 10115853	■	■	
	V-Gard visor arc flash protective chin guard combination** GS-ET-29 Class 2 (7 kA), EN166, EN 170 certified 203x438x1.7 mm • compatible with earmuffs • with extended ear protection (NOT earmuff compatible)	 10163457* 10163456*	■	■	■

* For chin protector adaptation (retractable chin protector: 97 mm in height).

** Please order as well retractable chin protector (Part No. 10115828).

V-Gard® – Face Protection

Mesh visors

- Reliable protection with excellent visibility and water run off
- Wide stainless steel mesh honeycomb design, for enhanced visibility
- Visual Light Transmittance excellent at 74%!
- Brown shade to reduce light reflection
- Lightweight and durable with high strength thermoplastic edging
- Market leading impact protection certified to EN 1731/EN 166 “F” 45s/m
- Wide face coverage
- Suitable for use with helmet mounted earmuffs
- Visor available for retractable and standard chin protectors



Mesh visor
10155774



Mesh visor compatible with a chin protector
10155775

V-Gard – Chin Protectors

V-Gard chin protectors provide extra protection from impact, arc flash and splash hazards to face and neck, approved in combination with frames and visors.



Retractable chin protector

- Unique retractable plates allow greater flexibility of head movement both up and down, as well as side to side
- Opaque material ensures safety and standards compliance with clear, tinted, shaded and coated V-Gard visors

Part No	Description
10115828	Retractable chin protector 97 mm in height



Standard chin protector

- Compact and lightweight design provides additional protection between chin and neck area
- Opaque material ensures safety and standards compliance with clear, tinted, shaded and coated V-Gard visors

Part No	Description
10115827	Standard chin protector 72.6 mm in height



left/RIGHT earmuffs

Passive earmuffs

Unique muffs designed to account for the anatomical individuality of the user

- Individual ear cups, left and right. The most comfortable protection on the market
- Helmet mounted and headband muff models
- 3 distinct wearing positions of helmet mounted models
- 3 attenuations levels
- 4 colours: blue, white, yellow, grey

Electronic earmuffs

Muffs enabling protection and listening at the same time

- Level dependent hearing protector CutOff: face-to-face communication, hearing and amplification of important sound and warning signals while being protected
 - Hearing protector Radio FM: excellent radio reception and superior sound quality
 - Dual: combination of CutOff and FM
- All feature e.g.:
- Sound levels from microphones and speakers are limited to max 82 dB(A)
 - Easy to use - operated by three distinct push buttons
 - Battery save and low battery warning system



left/RIGHT passive earmuffs	LOW SNR 25 dB (H=27 dB, M=22 dB, L=15 dB)	■ 10087438	□ 10087439	■ 10087437	■ 10101995
	MEDIUM SNR 28 dB (H=29 dB, M=25 dB, L=17 dB)	■ 10087429	□ 10087430	■ 10087428	■ 10101996
	HIGH SNR 31 dB (H=32 dB, M=28 dB, L=21 dB)	■ 10087423	□ 10087424	■ 10087422	■ 10101997
left/RIGHT electronic earmuffs	SNR 27 dB (H=31 dB, M=24 dB, L=16 dB)	■ CutOff Pro 10111826	■ CutOff Pro 10111823	■ Dual Pro 10111832	■ FM Pro 10111829

Accessories for left/RIGHT earmuffs	
10092878	Hygiene kits for left/RIGHT Low
10092879	Hygiene kits for left/RIGHT Medium
10092880	Hygiene kits for left/RIGHT High
10094605	Hygiene kits for electronic left/RIGHT



Classic Line earmuffs

Range of muffs designed to provide economic and reliable solution for most environments where hearing protection is required.

- Patented spring design offers low pressure tension and a good level of comfort
- Three distinct wearing positions for ease of use
- Excellent grip even when wearing gloves



EXC

EXC features unique moulded inserts to ensure excellent noise attenuation for medium noise levels and provide enough space for the ears inside the cup.

Part No	Description
SOR10012	SNR 26 dB, H=29 dB, M=23 dB, L=15 dB



HPE+

In environments with very high noise levels, especially in low frequencies, HPE offers reliable protection. Thick, soft, foam-filled cushions provide good comfort and perfect seal.

Part No	Description
SOR12012	SNR 31 dB, H=32 dB, M=28 dB, L=22 dB

MSA offers a full range of high quality spectacles and goggles. The following are just a selection. Please ask for separate leaflets.

The following selected models are the perfect solution to fix the headband on the rain gutter of a V-Gard 500 or 520 helmet with two special brackets.

Part No	Description
GA9006	Bracket to attach a goggle to V-Gard 500/520 (2 clips)



Altimeter

Hybrid design for universal use.

- Delivered with comfortable headband and length adjustable soft temples
- Headband option is ideal for use with earmuffs
- Complete eye enclosure and superior shock absorption.
- Sightgard anti-fog coating with good antiscratch properties
- Headband can be opened with one click without taking off the helmet



ChemPro

Fresh look, safe fit and complete protection.

- Protects against impacts, liquids, coarse dust and metal splash.
- "Soft touch" body adapts perfectly to the face
- Coating options: Sightgard+ or OptiRock
- Exchangeable lens
- Indirect but effective ventilation



FlexiChem

Comfortable goggle with increased chemical resistance.

- With an acetate lens it protects against splashes and large dust particles
- The pliable frame and indirect ventilation enhances comfort and fit
- Sightgard+ premium anti-fog coating EN 166 "N" with good anti-scratch properties.

Part No	Description
10145583	Altimeter (with temples and headband) smoke, Sightgard coating, Premium UV400, EN 166: 5-2.5 MSA 1 FT CE
10153915	Altimeter (with temples and headband) clear, Sightgard coating, Premium UV400, EN 166: 2C-1.2 MSA 1 FT CE
10145597	ChemPro clear, OptiRock coating (durable high performance anti-fog coating with outstanding anti-scratch properties EN 166 "KN"), EN 166: 2C-1.2 MSA 1 BT 349KN CE
10104671	ChemPro clear, Sightgard+ coating (premium antifog coating EN 166 "N" with good anti-scratch properties), EN 166: 2C-1.2 MSA 1 BT 349N CE
10145578	FlexiChem clear, Sightgard+ coating (premium antifog coating EN 166 "N" with good anti-scratch properties), EN 166: 2C-1.2 MSA 1 FT 34 N CE

Integrated eye protection Stow-away

- Fully integrated head and eye protection. The Stow-away "stows away" inside the helmet when eye protection is not required - protecting the visor from damage. Extremely comfortable, with no pressure points behind the ears.
- Compatible with helmet mounted earmuffs.
- For V-Gard and V-Gard 200 helmets.

Part No	Description
10002674	Stow-away visor, clear, coated antifog
10002675	Stow-away visor, tinted



V-Gard accessory system kits are designed to offer easy customer solutions for a variety of needs – all in one convenient box.

V-Gard forestry kits

- Robust frame to withstand chainsaw rebound
 - Reliable protection with excellent visibility and water run off
 - Wide stainless steel mesh. honeycomb design, for enhanced visibility
 - Visual Light Transmittance excellent at 74%!
 - Brown shade to reduce light reflection
 - Lightweight and durable with high strength thermoplastic edging
 - Market leading impact protection certified to EN 1731/EN 166 "F" 45s/m
 - Wide face coverage
- Options:**
- High visibility reflective stickers
 - Retractable chin guard



Basic

Ideal for lumberjacking

- Orange V-Gard helmet with Push-Key
- Standard V-Gard frame
- V-Gard metal mesh visor
- EXC earmuffs 27 dB

Premium

Complete kit for forest activities

- Orange V-Gard 500 vented helmet with Fas-Trac III and premium foam replaceable sweatband
- Standard V-Gard frame
- V-Gard metal mesh visor
- left/RIGHT earmuff 28 dB

Premium with chin guard

Ideal for tree lumberjacking and trimming

- Orange V-Gard 500 helmet vented with Fas-Trac III with premium foam sweatband
- Standard V-Gard frame
- V-Gard metal mesh visor with slots for chin guard
- left/RIGHT earmuffs 28 dB
- PVC neck cape
- Retractable chin guard



Part No	Description
GV161-001700E-000	Basic
GV469-0017004-000	Premium (without reflective stickers)
GV469-0017044-000	Premium (with reflective stickers)
GV469-0018004-000	Premium with chin guard (without reflective stickers)
GV469-0018044-000	Premium with chin guard (with reflective stickers)

V-Gard® – Winter Liners

MSA offers three categories of V-Gard winter liners:

- **Supreme:** multiple layers, permanent flame retardance, arc thermal performance, water repellent.
- **Select:** 2 layers of fabric, limited flame performance (25 or 50 washings).
- **Value:** provides excellent protection against cold with maximum economy.

All range is auto-certified Category 1 according to the following annex II of the PPE directive: "6.7 Clothing and/or accessories (whether or not detachable) designed and manufactured to provide protection against weather conditions which are neither exceptional nor extreme, for professional use". In addition, these liners have been added to the MSA V-Gard safety helmets certificates after checking of penetration and shocks test when used with helmets.

Flame retardancy

The MSA winter liners offer 2 level of protection against flame

- Supreme liners garments are made of special flame resistant fibers. Flame resistance cannot be removed by washing.
- Select liners garments have been chemically treated to ensure flame retardancy up to 50 washings.

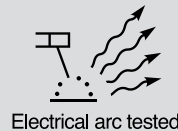
The flame resistance performance of our Select and Supreme liners have been tested at the specialist notified test house BTTG according to ISO EN 14116 paragraph 6.1, 6.1.4 . Test reports are available on request.



Electrical arc

The Supreme liners in addition to cold and flame performance, offer protection from arc exposure:

- Resistant to exposure to an ATPV (Arc Thermal Performance Value) of 8 cal/cm²
- Tested to ASTM F 1959/F 1959M-06 aE1 test method
- Perfect combination with V-Gard 500 unvented, V-Gard frame and 2.5 mm PC GS-ET-29 arc tested visor.



Water Repellancy

- Supreme and Select liners are water repellent for outdoor operations, performance Grade 3 according to AATCC 22 2010



Knit cap

- Can be worn under any model of helmet
- Perfect ear protection without obstructing vision
- Helmet remains stable on the head



Attachment to helmet suspension

- 2 velcro straps, wrapped around helmet headband
- Offers proper stability and position
- Easy to don, no adjustment required



Neck pocket for warming pack (Supreme only)

- Integrated pocket 9.5 x 5.7 cm to place a warming pack for enhanced warmth
- Warming pack not supplied with liners, available in most sporting goods retailers

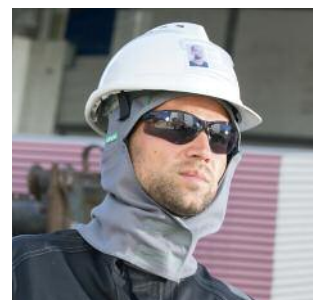


Earmuffs compatibility

- Quilted, adjustable flaps to provide continuous cold protection with or without earmuffs
- For use with earmuffs – won't compromise attenuation levels
- Earflap opens and stores with hook and loop on back of liner when in use with earmuffs



	Part No	Description	Lenght	Warmth level	Flame retardancy	Water repellency	Withstands arc exposure	Can be worn with earmuffs	Sale Units in pcs
V-Gard Supreme Liners									
	10118425	V-Gard Supreme liner	370 mm			■	■	■	3
	10118427	V-Gard Supreme liner, 2-piece	370 mm			■	■		3
V-Gard Select Liners									
	10129659	V-Gard Select liner, 2-piece	370 mm			■			12
	10118423	V-Gard Select liner	370 mm			■		■	12
	10118424	V-Gard Select liner, Yellow high visibility	370 mm			■		■	12
V-Gard Value Liners									
	10118417	V-Gard Value liner knit cap	300 mm						12
	10118418	V-Gard value liner can be worn over or under helmet	370 mm						12
	10118419	V-Gard Value liner	280 mm						12
	10118422	V-Gard Value liner	370 mm						12



V-Gard® – Cooling Pads

MSA offers two innovative cooling pads. HyperKewl™ evaporative cooling provides extended relief from heat fatigue and heat stress.

- Lightweight, durable and non-toxic
- Easy to activate and re-usable – approx 100 activations
- 5–10 hours of cooling relief per soaking 6 to 12°C lower than the outside temperature!
- CE certified (PPE category 1)
- Both have passed testing to EN 397
- Accessories in V-Gard certificate

How it works?

A water management system created from the HyperKewl™ fabric absorbs and releases water within the multi-layered material.

- Simply submerge the product in water for 1 minute allowing the HyperKewl™ fabric to absorb the water
- Gently squeeze out the excess water, wipe dry and wear
- Before first use: follow activation proceeding above and let the product dry completely. This is necessary for the cooling fabric fibers to set into the product.
- The product can be activated 100 times
- For washing, it needs to be washed with a brush and light soap

Crown cooler

- Protect from dangerous heat
- Hook and loop conveniently attaches easily to V-Gard helmet suspensions
- Colour: royal blue

Part No	Description
GA90022	Crown cooler



Crown cooler with neck shade

- Protect neck and head from dangerous heat and sun
- Hook and loop conveniently attaches to V-Gard helmet suspensions
- Colour: Hi-Viz yellow/lime (meets EN 471 requirements)

Part No	Description
GA90023	Crown cooler + neck shade



Neck capes provides protection from wind and rain, dust, debris and liquid splash.

Two different washable neck capes are available with all MSA helmet models. Both neck capes have to be fitted to the two rear tabs of the MSA suspensions.

Part No	Description
GA90005	PVC fluo orange neckcape
T1900700	Nomex orange neckcape

PVC fluo orange neckcape

- Protects from wind, rain, debris and liquid splash
- Mainly used in forestry applications



Nomex orange neckcape

- Protects from limited flame spread
- Mainly used for OGP* applications or steel industries



* Oil, Gas and Petrochemicals

MSA - Environmentally Sensitive



The MSA head protection range design is environmentally friendly and the production plant takes full account of all environmental considerations in the manufacturing process, from the selection of raw material suppliers to shipping. All the plastic material wastage during operations or helmets used for laboratory tests are sorted and recycled with all the plant waste (paper, etc). Globally MSA is compliant with all the latest environmental directives such as the REACH, regulations for chemical components used in our products. All these aspects are written into our "Plant Safety & Environment Guideline and Policies" which are available on request.

At MSA, Every Life has a Purpose.



MSA V-Gard is a protection icon in the PPE world

You can find V-Gard helmets around the world in different markets and industries.

MSA V-Gards are the most recognised industrial helmets globally. Everybody knows its "V" shape, not only workers but famous people around the globe.

Everyday you will see in movies, TV programs and TV news V-Gard helmets on the heads of celebrities: Beyonce, Pope Francis, the Chilean miners, the French Prime Minister, the street art creator JonOne and even Walker the bear at a Scottish zoo for who's favourite toy is a V-Gard.

Let's play recognise the "V" and send us any funny pictures or pictures of famous people wearing V-Gards.

V-Gard is our brand but also your brand.

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