

Reflective Solutions
for Occupational Clothing

Personal Safety



Engineered to Save Lives™



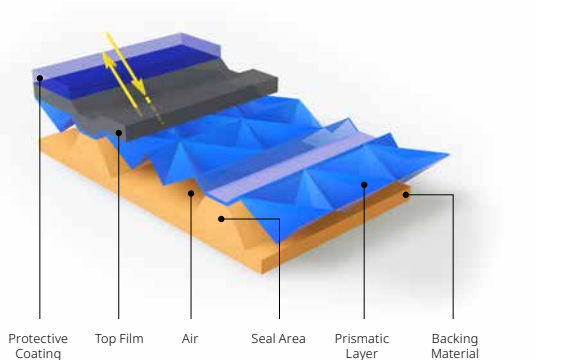
ORAFOL Europe GmbH

Headquarters and production facility

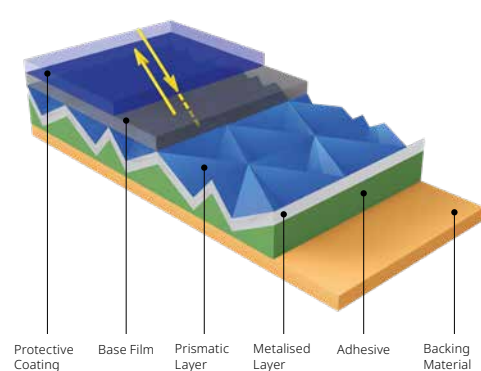
ORAFOL is one of the world's leading manufacturers of innovative self-adhesive graphic films, reflective materials and adhesive tape systems. The international ORAFOL GROUP is headquartered just outside the city gates of Berlin, in Oranienburg.

Principles of Retroreflection

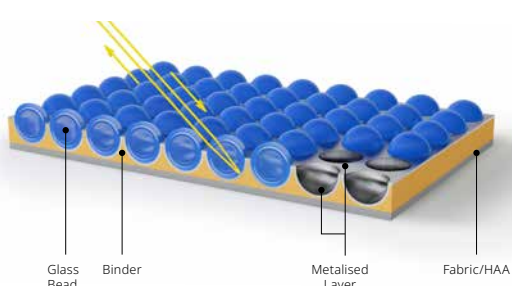
Prismatic Air-backed Construction



Prismatic Metalised Construction



Glass Bead Construction



Personal Safety Reflective Solutions for Occupational Clothing

Find the right solution for your needs

ORAFOL offers a complete range of reflective materials for application onto high visibility workwear. All applicable products are approved to Regulation EN ISO 20471.

2 Principles of Retroreflection

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








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Tapes For Workwear – Glass Bead Tapes

	Product	Property	Certification	Wash	Wash cycles	Wash temperature	Drying	Dry cleaning ⁴	Colour
Sew-on	ORALITE® GP 010		EN ISO 20471	Domestic	30	60° C ¹			
	ORALITE® GP 020		EN ISO 20471	Domestic	50	60° C ¹	25 cycles	+	
	ORALITE® GP 030		EN ISO 20471 EN ISO 14116 EN 469 Arc EN ISO 11611:2015 EN ISO 11612:2015 EN ISO 15614:2007	Domestic	50	60° C ¹	30 cycles	+	
	ORALITE® GP 030P	Perforated	EN ISO 20471 EN ISO 14116 EN 469	Domestic	50	60° C ¹	30 cycles	+	
	ORALITE® GP 050		EN ISO 20471	Domestic	100	60° C ¹			
				Industrial	25	75° C ³	Tumble, 90° C		
	ORALITE® GP 090		EN ISO 20471	Domestic	100	60° C ¹			
				Industrial	50	75° C ³	Tumble, 90° C Tunnel, 155° C		
	ORALITE® GP 090P	Perforated	EN ISO 20471	Industrial	50	75° C ³	Tumble, 90° C Tunnel, 155° C		
	ORALITE® GP 095	Flame retardant	EN ISO 20471 EN 469 Arc EN ISO 11611:2015 EN ISO 11612:2015 EN ISO 1149-5	Domestic	50 25	60° C ¹ 92° C ²			
			Industrial	50	75° C ³				
	ORALITE® GP 095P	Flame retardant and perforated	EN ISO 20471 EN ISO 11611:2015 EN ISO 11612:2015 EN ISO 14116 EN 469	Domestic	50 25	60° C ¹ 92° C ²			
				Industrial	50	75° C ³			
Heat Application	ORALITE® GP 025		EN ISO 20471	Domestic	25	60° C ¹			
	ORALITE® GP 025S	Segmented	EN ISO 20471	Domestic	50	60° C ¹			
	ORALITE® GP 027	Flexible	EN ISO 20471	Domestic	50	60° C ¹	25 cycles	+	
	ORALITE® GP 092		EN ISO 20471	Industrial	50	75° C ³	Tumble, 90° C Tunnel, 155° C		
	ORALITE® GP 092S	Segmented	EN ISO 20471	Industrial	50	75° C ³	Tumble, 90° C Tunnel, 155° C		
	ORALITE® GP 097	Flame retardant	EN ISO 20471 EN ISO 14116 EN 469 Arc EN 1149-5	Domestic	50	60° C ¹			
				Industrial	50	75° C ³	Tumble, 90° C Tunnel, 155° C		
	ORALITE® GP 097S	Flame retardant and segmented	EN ISO 20471 EN ISO 14116 EN 469 Arc	Domestic	50	60° C ¹			
				Industrial	50	75° C ³	Tumble, 90° C Tunnel, 155° C		

1) ISO 6330:2012, Method 6N | 2) ISO 6330:2012, Method 9N
3) ISO 15797:2017, Method 1.2 or Method 4.2 | 4) ISO 3175:2010, Method 9.1

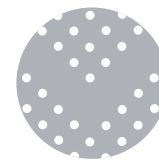
Pattern Guide



ORALITE® GP 010
ORALITE® GP 020
ORALITE® GP 025
ORALITE® GP 027
ORALITE® GP 030
ORALITE® GP 050
ORALITE® GP 090
ORALITE® GP 092
ORALITE® GP 095
ORALITE® GP 097



ORALITE® GP 025S
ORALITE® GP 092S
ORALITE® GP 097S



ORALITE® GP 030P
ORALITE® GP 090P
ORALITE® GP 095P

ORALITE® GP 010

Product benefits include:

- Ideal for common washable high visibility garments
- Sew-on application
- EN ISO 20471:2013 Separate Performance
- Domestic wash according to ISO 6330:2012, Method 6N
- Reflects as white



Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® GP 010	Silver	Nylon	50 mm x 100 m 1,2 m x 100 m	30 cycles at 60° C	EN ISO 20471:2013 Separate Performance

ORALITE® GP 020

Product benefits include:

- Durable standard tape, ideal for common washable high visibility garments
- Sew-on application
- EN ISO 20471:2013 Separate Performance
- Dry cleaning possible
- Domestic wash according to ISO 6330:2012, Method 6N
- Reflects as white



Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® GP 020	Silver	Polyester/cotton	50 mm x 100 m 1 m x 100 m	50 cycles at 60° C	EN ISO 20471:2013 Separate Performance

ORALITE® GP 050

Product benefits include:

- Durable standard tape, ideal for common washable high visibility garments
- Sew-on application
- EN ISO 20471:2013 Separate Performance
- Dry cleaning possible
- Domestic wash according to ISO 6330:2012, Method 6N
- Reflects as white



Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® GP 050	Silver	Polyester/cotton	50 mm x 100 m	100 cycles at 60° C	EN ISO 20471:2013 Separate Performance

ORALITE® GP 030 / GP 030P

Product benefits include:

- Flame retardant tape
- Sew-on application
- EN ISO 20471:2013 Separate Performance, ISO 14116:2008 Index 3, EN 469:2005, Arc rated
- Dry cleaning possible
- Domestic wash according to ISO 6330:2012, Method 6N
- Reflects as white
- ORALITE® GP 030P: Perforated version



Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® GP 030 / GP 030P	Silver	Cotton	50 mm x 50 m 1 m x 100 m	50 cycles at 60° C	EN ISO 20471:2013 Separate Performance, ISO 14116:2008 Index 3, EN 469:2005, Arc rated



ORALITE® GP 025 / GP 025 Segmented

Product benefits include:

- Durable standard tape, ideal for common washable high visibility garments
- Heat application
- EN ISO 20471:2013 Separate Performance
- Domestic wash according to ISO 6330:2012, Method 6N
- Reflects as white



Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® GP 025 / GP 025S	Silver	Heat applied	50 mm x 50 m 1 m x 50 m	25 cycles at 60° C	EN ISO 20471:2013 Separate Performance

ORALITE® GP 027

Product benefits include:

- Extra stretchable tape, ideal for thin and flexible high visibility garments where extra flexibility is needed
- Heat application
- EN ISO 20471:2013 Separate Performance
- Dry cleaning possible
- Domestic wash according to ISO 6330:2012, Method 6N
- Reflects as white



Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® GP 027	Silver	Heat applied	50 mm x 100 m 1.07 m x 100 m	50 cycles at 60° C	EN ISO 20471:2013 Separate Performance

ORALITE® GP 090 / GP 090P

Product benefits include:

- Standard industrial wash tape, ideal for common washable high visibility garments
- Sew-on application
- EN ISO 20471:2013 Separate Performance
- Industrial wash according to ISO 15797:2017, Method 8 or 4.2
- Home washing according to ISO 6330:2012, Method 6N
- Reflects as white
- ORALITE® GP 090P: Perforated version



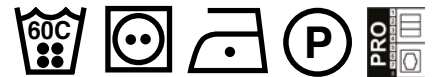
Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® GP 090 / GP 090P	Silver	Polyester/cotton	50 mm x 100 m 1 m x 100 m	100 cycles* at 60° C 50 cycles** at 75° C + Tumble Dry at 90° C 50 cycles** at 75° C + Tunnel Dry at 155° C	EN ISO 20471:2013 Separate Performance

*) as per ISO 6330:2012, Method 6N **) as per ISO 15797:2017, Method 8 or 4.2

ORALITE® GP 092 / GP 092 Segmented

Product benefits include:

- Standard industrial wash tape, ideal for common washable high visibility garments
- Heat application
- EN ISO 20471:2013 Separate Performance
- Industrial wash according to ISO 15797:2002, Method 8
- Reflects as white
- Segmented construction for extra user comfort



Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® GP 092 / GP 092S	Silver	Heat applied	50 mm x 100 m	50 cycles at 75° C + tumble dry at 90° C 50 cycles at 75° C + tunnel dry at 155° C	EN ISO 20471:2013 Separate Performance





Personal Safety / Glass Bead Tapes - Industrial Wash & Flame Retardant



For sew-on application

ORALITE® GP 095 / GP 095P

Product benefits include:

- Sew-on tape for garments where both industrial wash, flame retardance and ARC properties are needed
- Sew-on application
- EN ISO 20471:2013 Separate Performance
- EN 469:2005, ARC: ASTM F1959/F1959M
- Industrial wash according to ISO 15797:2002 Methods 8 and 2
- ORALITE® GP 095P: Perforated version



Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® GP 095 / GP 095P	Silver	100% Aramid fabric	50 mm x 50 m	50 cycles at 60° C*** 50 cycles at 75° C + tumble dry at 90° C 50 cycles at 75° C + tunnel dry at 155° C inlet temperature* 50 cycles at 75° C + tumble dry at 90° C 50 cycles at 75° C + tunnel dry at 155° C inlet temperature**	EN ISO 20471:2013 Separate Performance EN 469:2005 ARC

*) According to ISO 15797 Method 8 **) According to ISO 15797 Method 2 ***) ISO 6330, Method 6N

For heat application

ORALITE® GP 097 / GP 097 Segmented

Product benefits include:

- Heat applied tape for garments where both industrial wash and flame retardance properties are needed
- Heat application
- EN ISO 20471:2013 Separate Performance
- EN 469:2005
- Industrial wash according to ISO 15797:2002 Method 8
- Segmented construction for extra garment flexibility



Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® GP 097 / GP 097S	Silver	Heat applied	50 mm x 100 m	50* cycles at 60° C 50** cycles at 75° C + tumble dry at 90° C 50 cycles at 75° C + tunnel dry at 155° C	EN ISO 20471:2013 Separate Performance EN ISO 14116:2008 index 3 EN 469:2005

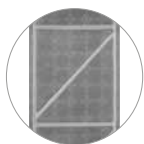
*) as per ISO 6330:2012, Method 6N **) as per ISO 15797:2002, Method 8

Tapes For Workwear – Prismatic Tapes

	Product	Wash	Property	Certification	Wash cycles	Wash temperature	Drying	Colours
Air backed	ORALITE® GP 325	Domestic	Prismatic economy solution	EN ISO 20471	25	60° C		●●●
	ORALITE® GP 340	Domestic		EN ISO 20471	100	60° C		●●●●
	ORALITE® GP 340 Highlight	Domestic	Wide range of different backing colours	EN ISO 20471	100	60° C		●●●●
	ORALITE® GP 340 Imagine	Domestic	Customisation with embossed logo	EN ISO 20471	100	60° C		●●●●
	ORALITE® GP 340 Shadow	Domestic	Subtle customisation with logo printed as shadow	EN ISO 20471	100	60° C		●●
	ORALITE® GP 350	Domestic	Reinforced backing	EN ISO 20471 EN ISO 14116-1	50	60° C		●●
	ORALITE® GP 370	Industrial		EN ISO 20471	75** 25	75° C 75° C	Tumble, 90° C Tunnel, 120° C	●●●●
Metallised single layer	ORALITE® GP 801	Domestic		EN ISO 20471	100	60° C		●
	ORALITE® GP 801 Checker	Domestic	Checker pattern	EN ISO 20471	100	60° C		●●●●●
	ORALITE® GP 900 Series	Industrial		EN ISO 20471	50	75° C	Tumble, 90° C	●

*) ISO 15797, Method 8 **) GP 370 orange: 60 cycles at 75° C

Pattern Guide



ORALITE® GP 325



ORALITE® GP 350



ORALITE® GP 900 Series
ORALITE® GP 801



ORALITE® GP 340
ORALITE® GP 340 Highlight
ORALITE® GP 340 Imagine
ORALITE® GP 340 Shadow



ORALITE® GP 370



ORALITE® GP 801
Checker



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Best value reflective safety tape for high visibility garments

ORALITE® GP 325

Product benefits include:

- Prismatic economy solution
- Sew-on application
- EN ISO 20471:2013 Separate Performance
- Domestic wash according to ISO 6330:2012, Method 6N
- Fluorescent colours available



Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® GP 325	White Silver Fluorescent lime	Vinyl, sew-on	50 mm x 50 m	25 cycles at 60° C	EN ISO 20471:2013

Option to Customise

ORALITE® GP 340 Series

Popular standard or customised option

Product benefits include:

- Prismatic tape series with possibilities for customisation with logos and text
- **GP 340:** Standard tape
- **GP 340 Highlight:** With multiple colour options for the backing
- **GP 340 Imagine:** GP 340 Highlight with your logo or wording embossed into the tape
- **GP 340 Shadow:** Standard GP 340 with your logo or wording printed inside the tape for a subtle effect
- Sew-on application
- EN ISO 20471:2013 Separate Performance
- Domestic wash according to ISO 6330:2012, Method 6N
- Fluorescent colours available



Product	Colour	Roll sizes	Washing	Approval
ORALITE® GP 340	Silver White Fluorescent lime Orange	50 mm x 50 m	100 cycles at 60° C	EN ISO 20471:2013
ORALITE® GP 340 Highlight	21 colour combinations (White, orange & fluorescent lime top film with 7 different backings)	50 mm x 50 m	100 cycles at 60° C	EN ISO 20471:2013
ORALITE® GP 340 Imagine	21 colour combinations (White, orange & fluorescent lime top film with 7 different backings) with logo or message on backing	50 mm x 50 m	100 cycles at 60° C	EN ISO 20471:2013
ORALITE® GP 340 Shadow	White & fluorescent lime with logo or message on backing	50 mm x 50 m	100 cycles at 60° C	EN ISO 20471:2013

Especially for cold weather and hard wearing applications

ORALITE® GP 350

Product benefits include:

- The ideal prismatic tape for cold weather and hard wearing applications, due to its reinforced backing
- Sew-on application
- EN ISO 20471:2013 Separate Performance
- Domestic wash according to ISO 6330:2012, Method 6N
- Fluorescent colour available



Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® GP 350	White Fluorescent lime	Reinforced, sew-on	50 mm x 50 m	50 cycles at 60° C	EN ISO 20471:2013



Personal Safety / Prismatic Tapes - Metalised

Prismatic reflective tape for Industrial Wash

ORALITE® GP 370

Product benefits include:

- Prismatic tape for industrial wash applications
- Sew-on application
- EN ISO 20471:2013 Separate Performance
- Industrial wash according to ISO 15797:2002, Method 8
- Fluorescent colours available



Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® GP 370	White Silver Fluorescent lime Orange	Vinyl, sew-on	50 mm x 50 m	75** wash cycles at 75° C + tumble drying at 90° C 25 wash cycles at 75° C + tunnel drying at 120° C	EN ISO 20471:2013

*) as per ISO 15797:2002 Method B **) Orange: 60 cycles at 75° C

ORALITE® GP 801 / GP 801 Checker

Product benefits include:

- Metalised prismatic construction for superior reflectivity
- Single layer construction with textile backing
- Sew-on application
- EN ISO 20471:2013 Separate Performance
- Domestic wash according to ISO 6330:2012, Method 6N
- Checker: Available in 4 different versions: red, blue, green and black



Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® GP 801	Silver	Textile backing	50 mm x 50 m	100 cycles at 60° C	EN ISO 20471:2013
ORALITE® GP 801 Checker	Silver Checker	for sew-on			

NEW

Prismatic reflective tape for Industrial Wash

ORALITE® GP 900 Series

Product benefits include:

- Metalised prismatic construction for superior reflectivity
- Single layer construction with textile backing
- Sew-on application
- EN ISO 20471:2013 Separate Performance
- ISO 15797:2017 Method 1.3 and 4.2



Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® GP 900 Series	Silver	Textile backing for sew-on	50 mm x 50 m	50* cycles at 75° C + tumble drying at 90° C	EN ISO 20471:2013

*) ISO 15797:2017 method 1.3 and 4.2

Fire Fighter Clothing Tapes

	Product	Wash	Certification	Wash cycles	Wash temperature	Drying*	Colours
Glass Bead	ORALITE® GP 030	Domestic	EN ISO 20471 EN ISO 14116 EN 469 Arc	50	60° C		●
	ORALITE® GP 095	Industrial	EN ISO 20471 EN 469 Arc	50***	75° C	Tumble, 90° C	●
				50***	75° C	Tunnel, 155° C	
				50**	75° C	Tumble, 90° C	
ORALITE® GP 097	Industrial	EN ISO 20471 EN 469 EN ISO 14116	50	60° C		●	
			50	75° C	Tumble, 90° C		
			50	75° C	Tunnel, 155° C		
ORALITE® FTP 300	Domestic	EN 469 EN ISO 14116	40	60° C		●	
Prismatic	ORALITE® FTP 1200	Domestic	EN ISO 20471 EN ISO 15614 ISO 16073	30	60° C		●
				30*	92° C		
	ORALITE® FTP 2000	Domestic	EN 469 EN ISO 14116	50	60° C		●
				30***	92° C		
ORALITE® FTP 2100	Domestic	EN ISO 20471 EN 469 EN ISO 14116	50	60° C		●	
			30***	92° C			
ORALITE® GP 801FR	Domestic	EN 469 EN ISO 20471 EN ISO 11611 EN ISO 11612 EN ISO 14116 EN ISO 15614	100	60° C	Tumble, 90° C	●	

*) ISO 15797, Method 8 **) ISO 15797, Method 2 ***) ISO 6330:2012 Method 9N

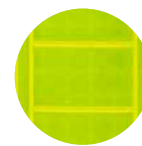
Pattern Guide



ORALITE® GP 030
ORALITE® GP 095
ORALITE® GP 097



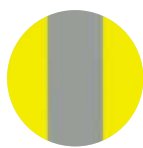
ORALITE® FTP 2000



ORALITE® FTP 1200



ORALITE® GP 801FR



ORALITE® FTP 300



ORALITE® FTP 2100



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Personal Safety / Fire Tapes – Glass Bead

“Triple Trim” design

ORALITE® FTP 300

Product benefits include:

- Classic “Triple Trim” fire tape with a reflective centre strip and fluorescent borders
- Sew-on application
- Central strip: EN ISO 20471:2013 Separate Performance, EN ISO 14116:2015 Index 3, EN 469:2005
Yellow part: EN ISO 20471:2013 Fluorescent Background Materials
- Domestic wash according to ISO 6330:2012, Method 6N
- Central strip reflects light as white



Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® FTP 300	Fluorescent lime and silver retroreflective central strip	Sew-on	50 mm x 100 m 75 mm x 100 m	40 cycles at 60° C	EN ISO 20471:2013* EN 469:2005 EN ISO 14116:2008

*) Approval relates to central strip only. Not for use on EN ISO 20471 garments, as the compliant part of this tape does not meet the minimum width of 50 mm.

ORALITE® GP 030 / GP 095 / GP 097

Product benefits include:

- Standard glass bead range for flame retardant garments
- GP 030: Sew-on
- GP 095: Sew-on
- GP 097: Heat applied (also available in segmented version)
- Industrial wash according to ISO 15797:2002, Method 8 (GP 095 and GP 097)
- Domestic wash according to ISO 6330:2012, Method 6N (GP 030)



only GP 030



only GP 095

Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® GP 030	Silver	Flame retardant cotton backing	50 mm x 50 m 1 m x 50 m	50 cycles at 60° C	EN ISO 20471:2013 EN ISO 14116:2008 EN 469:2005
ORALITE® GP 095	Silver	100% Aramid fabric	50 mm x 50 m 1 m x 50 m	50 cycles at 75° C + tumble dry at 90° C 50 cycles at 75° C + tunnel dry at 155° C inlet temperature* 50 cycles at 75° C + tumble dry at 90° C 50 cycles at 75° C + tunnel dry at 155° C inlet temperature**	EN ISO 20471:2013 EN 469:2005 ARC
ORALITE® GP 097	Silver	Flame retardant cotton backing	50 mm x 50 m 1 m x 50 m	50 cycles at 60° C 50 cycles at 75° C + tumble dry at 90° C 50 cycles at 75° C + tunnel dry at 155° C inlet temperature**	EN ISO 20471:2013 EN 469:2005 EN ISO 14116:2008

*) According to ISO 15797 Method 8 **) According to ISO 15797 Method 2

Solid colour tape

ORALITE® FTP 1200 Advanced

Product benefits include:

- Classic fluorescent lime yellow tape for fire garments
- Airbacked construction
- Sew-on application
- EN ISO 20471:2013 Separate Performance, EN ISO 15614:2007, EN 469:2005, ARC: ASTM F1959/F1959M, ARC: EN 50354:2002 Class 1
- Domestic wash according to ISO 6330:2012, Method 6N



Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® FTP 1200	Fluorescent lime	Sew-on	50 mm x 50 m	30 cycles at 60° C	EN ISO 20471:2013 · EN 469:2005 EN ISO 14116:2008 · EN ISO 15614:2007 EN ISO 16073:2011 · Arc

“Triple Trim” design

ORALITE® FTP 2000

Product benefits include:

- Prismatic “Triple Trim” fire tape, with full border-to-border reflectivity
- Metalised single layer construction with textile backing
- Sew-on application
- EN ISO 20471:2013 Separate Performance (central strip only), EN ISO 14116:2015 index 3, EN 469:2005
- Domestic wash according to ISO 6330:2012, Method 6N



Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® FTP 2000	Fluorescent lime diamond pattern with central strip	Sew-on	50 mm x 50 m 75 mm x 50 m	50 cycles at 60° C 30* cycles at 92° C	EN 469:2005 EN ISO 14116:2008

*) ISO 6330:2012 Method 9N

Fluorescent green metalised tape

ORALITE® FTP 2100

Product benefits include:

- Classic fluorescent green tape for fire garments
- Metalised single layer construction with textile backing
- Sew-on application
- EN ISO 20471:2013 Separate Performance, EN ISO 14116:2015 index 3, EN 469:2005
- Domestic wash according to ISO 6330:2012, Method 6N and 9N



Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® FTP 2100	Fluorescent lime green	Sew-on	50 mm x 100 m 75 mm x 100 m	50 cycles at 60° C 30* cycles at 92° C	EN ISO 20471:2013 · EN 469:2005 EN ISO 14116:2008

*) ISO 6330:2012 Method 9N

Silver metalised tape

ORALITE® GP 801FR

Product benefits include:

- Silver coloured high performance prismatic tape for fire garments
- Metalised single layer construction with textile backing
- Sew-on application
- EN ISO 20471:2013 Separate Performance, EN ISO 11611:2015, EN 469:2005+A1:2016, EN ISO 11612:2015, EN ISO 14116:2015, EN ISO 15614:2007
- Domestic wash according to ISO 6330:2012, Method 6N and tumble dry



Product	Colour	Backing	Roll sizes	Washing	Approval
ORALITE® GP 801FR	Silver	Sew-on	50 mm x 50 m	100 cycles at 60° C	EN 469 · EN ISO 20471 EN ISO 11611 · EN ISO 11612 EN ISO 14116 · EN ISO 15614



EN ISO 20471 - 3 classes of protection

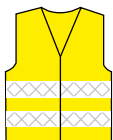
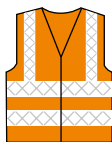
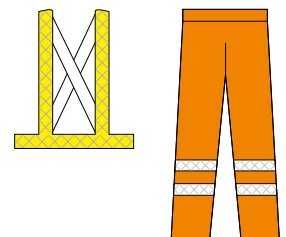
EN ISO 20471 is a European Standard which specifies the minimum performance requirements and test methods for professional high visibility clothing to keep you safe day and night.

Performance requirements are included for colour and retroreflection as well as for the minimum areas and for the placement of the materials on protective clothing. Make sure your garment is compliant by looking for the CE mark on the label. Remember the brighter you are, the safer you are.

Class 1

Class 1 defines the lowest level of visibility

- Fluorescent material $\geq 0,14 \text{ m}^2$
- Retroreflective material $\geq 0,10 \text{ m}^2$ or combined material fluorescent reflective $0,2 \text{ m}^2$



Required for any person working on or near A and B class roads

Class 2

Class 2 defines intermediary visibility

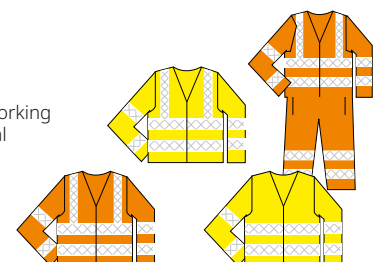
- 1 horizontal band and 2 shoulder bands or, 2 horizontal bands and 2 shoulder bands or, 2 horizontal bands
- Trousers need 2 horizontal reflective bands on each leg
- Bib and brace trousers: 1 horizontal band around the torso, 2 horizontal reflective bands on each leg
- Fluorescent material $\geq 0,5 \text{ m}^2$
- Retroreflective material $\geq 0,13 \text{ m}^2$

Class 3

Class 3 defines the highest level of visibility

- Same as class 2, but with full sleeves and 2 horizontal circular bands on each sleeve
- Fluorescent material $\geq 0,8 \text{ m}^2$
- Retroreflective material $\geq 0,2 \text{ m}^2$

Required for any person working on or near motorways, dual carriageways or airports





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Personal Safety

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