

T-LINK® system

No more exposure to weld flashes

The reaction time of standard filters, however fast, still exposes the eye to artificial optical radiation. In spot welding, this “microflash” multiplies for hundreds or thousands of times a day.

T-LINK is the right choice to protect the health of welding operators.

Artificial optical radiation exposure time comparison between T-LINK Filter and Standard Filters during an 8-Hour spot-welding Shift, considering a work hypothesis with 400 spot welds per hour.

400 spot welds per hour	T-LINK FILTER (0,00 ms)	HIGH QUALITY FILTERS (0,15 ms)	MEDIUM QUALITY FILTERS (0,25 ms)	LOW QUALITY FILTERS (0,40 ms)
1 h	0,00 s	0,08 s	0,13 s	0,20 s
2 h	0,00 s	0,12 s	0,20 s	0,32 s
3 h	0,00 s	0,18 s	0,30 s	0,48 s
4 h	0,00 s	0,24 s	0,40 s	0,64 s
5 h	0,00 s	0,30 s	0,50 s	0,80 s
6 h	0,00 s	0,36 s	0,60 s	0,96 s
7 h	0,00 s	0,42 s	0,70 s	1,12 s
8 h	0,00 s	0,48 s	0,80 s	1,28 s

RISKS FOR THE OPERATOR

... chronic conjunctivitis is the most common affection; the agents in question are primarily UV radiation in arc welding ...

... some studies report the appearance of retinal degeneration and maculopathy in subjects that perform arc welding ...

... a recent revision of literature reveals an increased risk of developing ocular melanoma in electrical arc welding (Dixon and Dixon, 2004) ...

Ing. Federica Riva

intervention at the seminar:

The assessment of the risk of artificial optical radiation.

Taken from the article:

Artificial optical radiations Risks for welders from the newspaper Puntoscuro.

HEALTHIER IS STRONGER

Protecting workers against hazards due to exposure to artificial optical radiations.

The workers good health is the most precious thing for a company. This is also required by the main directives and guidelines on safety and health at work.

Each country fulfils the same principals through their own detailed regulations.

The safety of the welding operator, therefore, is no longer just a responsible choice of the employer, but a clear legal obligation.

TYPE	SUBTYPE	PART OF THE BODY IN RISK	POSSIBLE DAMAGES
ULTRAVIOLET	UVA UVB UVC	EYE Cornea Conjunctiva Crystalline lens DERMIS	Photokeratitis Conjunctivitis Cataracts (opaque crystalline) Erythema Elastosis Early aging and skin cancers
	UVA	EYE Crystalline lens	Cataracts (opaque crystalline)
VISIBLE LIGHT	BLUE LIGHT	EYE Retina	Photoreinitis
	INTENSE LIGHT	EYE Retina DERMIS	Burns to retina Burns to dermis
INFRARED	IRA	EYE Retina	Burns to retina
	IRA IRB	EYE Cornea and crystalline lens DERMIS	Burns to cornea Burns to dermis