

## GUIDE TO LENS COATINGS

JSP eyewear lens coatings have been specially developed to provide the best protection from abrasive scratches and misting. Our coating technologies have been developed over many years to provide unrivalled performance in Anti-Scratch and Anti-Mist. We have developed a range and branded them for your easy reference:

COATING	DESCRIPTION
 <b>Premier SHIELD™</b>	<b>ANTI-MIST &amp; ANTI-SCRATCH</b> Premier Shield™ is a permanent high performance Anti-Scratch ( <b>K</b> ) and Anti-Mist ( <b>N</b> ) coating. Premier Shield™ is also Anti-Static. Spectacles with Premier Shield™ conform to EN166 <b>K,N</b> .
 <b>HARDIA+™</b>	<b>ANTI-SCRATCH</b> Hardia+™ is a permanent high performance Anti-Scratch ( <b>K</b> ) coating. Spectacles with Hardia+™ conform to EN166 <b>K</b>
 <b>MistResist+™</b>	<b>ANTI-MIST</b> MistResist+™ is a permanent high performance Anti-Mist ( <b>N</b> ) coating. It also provides a medium level of Scratch-Resistance. MistResist+™ is also Anti-Static. Spectacles with MistResist+™ conform to EN166 <b>N</b>
 <b>HARDIA™</b>	<b>SCRATCH RESISTANT</b> Hardia™ is an entry level Anti-Scratch coating that provides good Scratch-Resistance at an economical price.
 <b>MistResist™</b>	<b>MIST RESISTANT</b> MistResist™ is an entry level Anti-Mist coating which also provides a medium level of Scratch-Resistance. MistResist™ is also Anti-Static.

### EN170 - UV PROTECTION

#### UV Rays Protection - European Standard for Ultraviolet Filters

Specifications of level numbers and requirements relating to the transmittance of filters for protection against ultraviolet radiation

### EN172 - UV PROTECTION

#### Specification For Sunglare Filters Used In Personal Eye Protection For Industrial Use

Specifications of level numbers and requirements relating to the transmittance of filters for protection against solar radiation

## LENS GUIDE

### CLEAR

Suitable for use in good visibility conditions.



### SMOKE

For direct sunlight and bright glare conditions.



### AMBER

Offers sharpness, acuity and contrast. Primary function is to block blue light.



### INDOOR / OUTDOOR

Reduces dazzling and the harmful effects of blue light.



### POLARISED

Stops horizontal glare for better perception of contrast in bright environments.



## EN166 - Types of Hazard Protection

<b>1</b>	Optical quality (1=high, 3=low)
<b>B</b>	Medium energy impact 120 m/s
<b>F</b>	Low energy impact 45 m/s
<b>T</b>	For protection at extremes of temperature

<b>3</b>	Liquid droplets
<b>4</b>	Large dust particles (up to 5 µm)
<b>5</b>	Gas and fine particles (below 5 µm)
<b>8</b>	Short circuit electric arc
<b>9</b>	Molten metals and hot solids

<b>K</b>	Resistance to surface damage by fine particles
<b>N</b>	Anti-Mist
<b>H</b>	Frame suitable for small head (PD=54mm)