

elipse



Reusable Safety Respirators



Development of a unique reusable safety respirator

The Eclipse Half-Face Mask represents a major leap in mask design and the development of new technology by NFC Specialist Products. The result is a mask that enables the wearer to feel more comfortable and less constricted without compromising the efficiency and effectiveness of the mask.

MASK DESIGN

The first objective was to break free of the conventional mask shape that covered virtually the entire lower face, a necessity in most instances to be able to accommodate the size of filters required to achieve the level of efficiency demanded for the conditions in which the mask would be worn. To achieve this objective NFC Specialist Products had to address the issue of filter size and shape. This demanded an entirely new approach to filter design and manufacture.



Comfort Factors

A mask designed to be worn for up to eight hours needs to pay special attention to the ongoing comfort of the wearer. Hence the starting point of an ergonomic design aimed at fitting the contours of the face. Silicon and latex-free, odour-free, non-allergic medical grade materials have been used for the construction of the mask itself as well as for the materials used in the construction of the filters.

The head-strap has four adjustable locations for increased comfort, and a protective head-band at the rear. The compact design further reduces the risk of the mask interfering with the users line of vision, or with any eye or ear protection that must also be worn.

A large area non-return exhaust valve has been utilised to provide low breathing resistance which in turn reduces wearer fatigue and the subsequent discomfort experienced by conventional masks. The mask is supplied with P3 filters as standard to provide maximum protection.

Pleat Encapsulation: A patented technology

Conventional circular, square and rectangle filter shapes were totally unsuitable for the type of mask envisaged by NFC Specialist Products. An ovalar or elliptical shape was required, along with a filter housing with flexibility. The development of pleat encapsulation technology whereby the material used to hold the pleated media in place also forms part of the housing and the mechanism for securing the filter in place within the mask. Extensive research on the type of resins available to provide the flexibility to allow the filter to be curved when fitted into the mask was required.



HESPA FILTER MEDIA

When development commenced none of the filter medias available met the requirements for the new mask. Plenty of high efficiency pleatable medias were available, but none combined a sufficiently low pressure loss with the high enough efficiency that was required to produce the low-depth filter needed. Thus, HESPA media – a high efficiency synthetic media with a low pressure loss - was developed to NFC Specialist Product's specification. The HESPA media range has efficiencies from 99.95% to 99.999%, and has been shown to be more robust than the conventional glass medias used in respirator filters.



Designed to fit the contours of your face



The range of reusable safety respirators

The Eclipse range commences with a P3 (99.95% efficiency at 0.3 micron) for general use, through to an A1P3 for more demanding environments. Cost-effectiveness is maintained through the supply of replaceable filters for all grades.



ELIPSE P3

The Eclipse P3 provides protection against dust particles, metal fumes, mists, vapours, bacteria & viruses. It is perfect for everyday use from DIY and commercial construction through to the more demanding environments of metalworking, welding and stonemasonry.



ELIPSE P3 Nuisance Odour

The Eclipse P3 Nuisance Odour is designed to remove low level odours and gases which may be as much unpleasant as injurious to health, in addition to particulates. Typical applications would be in general use where low level odours arise, food processing, pharmaceutical production, and laboratories.



ELIPSE A1P3

The Eclipse A1P3 combines a particulate and carbon filter designed to protect against solid and liquid particles such as dusts and mists, along with vapours and organic gases, including acids, ammonia and chloride gases. Typical applications would include timber spraying (preservatives and coatings), solvent and paint spraying, crop spraying, and foundries.



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Distributor Support

APPLICATIONS FOR THE ELIPSE RANGE

Filter life depends on a number of variable factors; the wearer's breathing rate, the characteristics and level of contaminant, length of time a user is exposed to a contaminant, and environmental conditions such as temperature and humidity. Saturated or used filter cartridges will leak trace amounts of contaminant to the wearer, which may be detected via odour, taste, and irritation. If a contaminant is detected filters should be changed immediately.

DIY

Loft Insulation
Concrete and Plaster
Wood (Softwood/Hardwood)
MDF and Paper
Tile Cutting

WELDING

Stainless Steel
MIG / TIG
Spot Welding
Brazing / Silver Solder
Galvanised Welding

METAL WORKING

Molten Metal Handling
Machining
Grinding
Polishing

CONSTRUCTION

HVAC Air Filter Changes
Demolition
Groundwork
Asbestos
Shot Blasting
Boiler Maintenance

FOOD PROCESSING

Poultry/Meat and Dairy
Animal Feeds
Fermentation

PHARMACEUTICAL

Tablet, cosmetic, toiletry

Multi-Language Information

Instruction for Use sheets are printed in English, French, German, Italian and Spanish, and product information in all languages appears on the outside of the packaging.

Artwork Support

Images and promotional material developed to promote the Elipse can be made available to clients to assist in developing their own promotional material to get into the market as quickly and product information in all languages appears on the outside of the packaging.

The opportunity to use the language of the country of destination on the front of the packaging is available according to the volume being purchased.

Branding Protection

Elipse is a registered trade mark, giving protection in its use to promote this style of facemask.

Marketing Support

There is an active marketing campaign to promote the Elipse and its distributors throughout the world.

Packaging Detail

Supply Packaging

- Transparent Box
- Standard supply: one mask fitted with 2 filters.

Replacement Filters

- Two filters per pack
- Poly-Bag with Euroslot & fitting instructions



Contact Detail



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