# FIRST FOR FILTERS

Air · Oil · Fuel · Cabin

COMLINE

www.comline.uk.com


A COMPREHENSIVE RANGE OF FILTERS FOR ALL

**EUROPEAN, JAPANESE & KOREAN**

**Passenger Cars & Light Commercial Vehicles**

# HIGH-QUALITY FILTERS FROM

## Contents



# ONE OF THE FASTEST GROWING AUTOMOTIVE BRANDS IN EUROPE

> *"You can't go wrong with a Comline filter; performance and reliability is always impressive and they do a great job keeping their range up-to-date."*
>
> **Rory, Comline Customer (Republic of Ireland)**

> *"I buy Comline filters because they offer the perfect package for my business. I can always rely on the quality of the product but my business also benefits from the value for money on offer."*
>
> **Stephen, Comline Customer (United Kingdom)**

> *"We use Comline filters because they offer very good quality and precise fitment. Comline in general has excellent product know-how."*
>
> **Stathis, Comline Customer (Greece)**

Air Oil Fuel Cabin + CARBON

# At a Glance

## Comline **Filters**

With total reliability, ease of fitment, a comprehensive range and genuine value for money, Comline filters are the first choice for aftermarket customers in over 40 countries worldwide.

1st FOR FILTERS


- Over 25 years of filter pedigree
- Millions sold worldwide each year
- Over 1800 references in range
- Air, Oil, Fuel and Cabin/Activated Carbon options available
- All makes coverage of all popular European, Japanese and Korean models
- Passenger Car and Light Commercial applications
- Comprehensive cataloguing available via MAM Autocat, TecAlliance and Comline website
- Performance and specification benchmarking makes Comline an OE alternative
- Manufactured in market-leading production facilities
- Premium-quality filter media from leading producers
- Comline PPG (Precision Pleat Geometry) for efficiency and reliability
- High-calibre components including premium rubber seals and ‘super strength’ internal tubes
- Extensive factory performance testing and Comline Quality Lab analysis
- Associate member of the IFTS (International Filtration Testing Services)

# Formula for Filtration

**At Comline, we view each individual filter reference as an essential component in the smooth running of a vehicle. We take great care in delivering a range that offers consistent, reliable performance from top-to-bottom. A lot goes into this process, one which we refer to as our 'Formula for Filtration'.**


## Vehicle Parc Analysis

Our Product Development Team scrutinise the European, Japanese and Korean vehicle parc to ensure the Comline range is in-tune with the needs of the market.

Our dedicated and proactive development programme ensures Comline offers comprehensive coverage and is early to launch with new applications as they hit the aftermarket.


## Precise Specification

The development of any new Comline filter reference starts by creating a detailed specification. Through meticulous OE benchmarking, Comline develops a strict specification for each filter which provides the road-map for the development process.


## Premium Components

Part of Comline's specification requirement is an insistence on premium quality components. Filter media is the most prevalent example with paper sourced exclusively from world-renowned suppliers.

5

## Testing & Quality Control

An array of testing, both in-factory and within Comline's own Comline Quality Lab, is the final piece in our performance jigsaw. Examples include efficiency, pressure, impulse and rubber seal testing. Comline is also a member of the IFTS (International Filter Testing Services).


6

## Distinctive Branding

Each Comline filter is delivered with clear, concise product markings and packaged in our distinctive yellow and blue livery.


7

## Customer Support

The entire Comline range is backed by a comprehensive data portfolio including product specifications, application data and fitment information. Data is available via MAM Autocat, TecAlliance and online at www.comline.uk.com

4

## Manufacturing Facilities

Comline has forged links with some of the world's foremost filter production facilities. Each factory is audited by our Product Development Teams to ensure compliance with brand quality standards and is carefully selected to produce references based on specialisms.

# The ANATOMY of FILTRATION

**Feature:** Carefully selected premium media sourced from world-leading suppliers.

**Benefit:** Excellent efficiency, structural stability and capacity for superior filtration of contaminants.

**Feature:** Steel phosphate oil filter canisters.

**Benefit:** Provides excellent levels of strength to operate efficiently at high pressures whilst maintaining strong corrosion resistance throughout the life of the filter.

**Feature:** Stainless steel coil springs used in bypass valves.

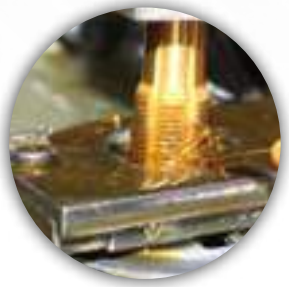
**Benefit:** Corrosion resistance and tensile strength maintains consistent bypass valve performance in-line with OE standards.

**Feature:** Heavy-duty stainless steel base plates and precision-stamped steel end caps.

**Benefit:** Delivers superior structural support to retain filter integrity and ensure reliable operation.

**Feature:** Silicone or NBR (Nitrile Butadiene Rubber) anti-drain back valves.

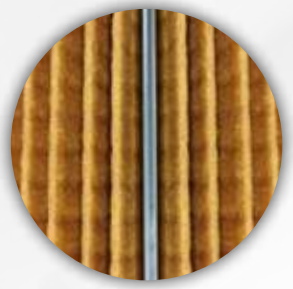
**Benefit:** Quality materials provide reliability and dependable anti-drain back valve operation. This stops oil from draining from the upper part of the engine into the oil sump, preventing a dry start.



**Feature:** Precision-threaded base plates.

**Benefit:** Enables trouble-free location and installation of the filter whilst reducing the potential risk of contamination. Rough-edges caused by inferior machining can result in metal fragments entering the system.


COMLINE
AUTO PARTS

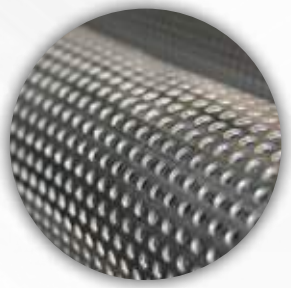


**Feature:** Secure clipping.

**Benefit:** Maintains the integrity of the filter element and Precision Pleat Geometry (PPG) for consistent filtration throughout the life of the part.

**Feature:** NBR (Nitrile Butadiene Rubber) gaskets, seals and diaphragms.

**Benefit:** Premium compounds ensure a reliable seal and prevent leakage.



**Feature:** Perforated stainless steel internal tubes.

**Benefit:** 'Super strength' design handles high-pressure conditions to maintain consistent, reliable performance.

**Feature:** Location pins in-line with OE design.

**Benefit:** Filters that are fit-for-purpose and enable simple, precise and cost-effective fitment.

**Feature:** High-strength adhesives.

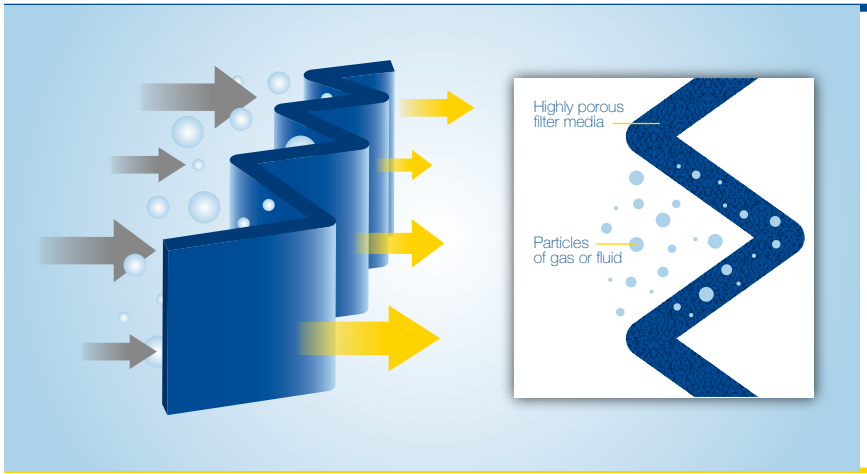
**Benefit:** Quality adhesives ensure filter integrity throughout the life of the part. Quite literally the glue that holds it all together!

**Feature:** Selected air filters are equipped with an additional pre-filter.

**Benefit:** : Removes larger particle contaminants such as road-dust, thus enabling the specialised filter media to handle only fine particulates such as exhaust gases and soot.

# The POWER of Media

Each component used in filter manufacture is important but the power of media (paper) cannot be understated. In simple terms, it is the media that actually undertakes the filtration process and ensures the air, oil or fuel is free from contaminants.




# How it **Works**

Automotive filter media is manufactured using specific varieties of wood pulp and is highly porous. The media allows air or fluid to pass through a series of minute holes within its structure and, as this process occurs, the material collects harmful contaminants and prevents them from entering the vehicle systems.

# Media **Selection**

High-quality filter media, such as that used by Comline, combines excellent efficiency and structural stability with high capacity. Our media is carefully chosen based on the requirements for the specific filter and sourced from the world's best producers, including Ahlstrom, Clean & Science, Hollingsworth & Vose and Neenah Gessner. This insistence on high-efficiency media ensures Comline filters remove impurities and contaminants at a microscopic level.

# Precision **Pleat Geometry (PPG)**

To increase effective surface area within a Comline filter and maximise both efficiency and capacity, filter media is carefully 'pleated'. Each Comline filter is equipped with Precision Pleat Geometry (PPG) which ensures uniformity of depth, spacing and quantity of pleats within each filter reference. PPG is all important in maintaining flow rate, maximising efficiency and ensuring the service life performance of the filter.

# Mastery of Media

Filter media essentially acts as the guardian within the filter element. Its integral role is to prevent unwelcome particles within gases or liquids from infiltrating vehicle systems and/or, in the case of cabin filters, the respiratory systems of vehicle occupants. Without effective filtration, damage can occur to both the vehicle and its occupants.

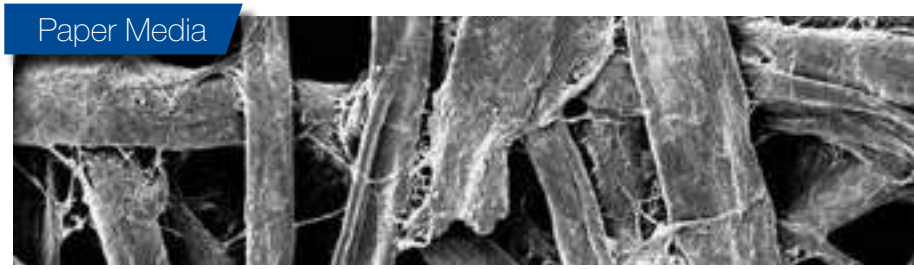
The composition of filter media is dependent on the required specification and application. There are three broad variants of automotive filter media: **non-woven, paper and multi-layer media.**

## ! DID YOU KNOW

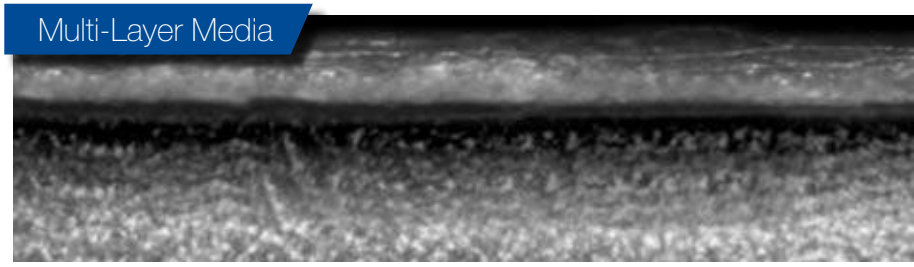
**Many modern applications are now utilising fleece materials in support of traditional media. Due to its material properties, fleece is increasingly being used as a pre-filter layer on air and fuel filters as a method of removing larger particle sizes, in fact, testing has shown the use of fleece can increase filter performance by up to 40%. Comline is already taking advantage of fleece materials on selected filter references in line with OE specifications – this includes examples such as EFF121 and EAF583.**

Non-Woven Materials

Paper Media



Multi-Layer Media



## Non-Woven Materials

- Made up of **plastic fibres** which are **applied in layers**
- **Better separation quality** due to the use of finer fibres
- Density and fineness of fibres increase from dirt side to clean side
- **99.9% efficient** with low flow resistance at all times
- Ultra-fine fibres **measured in microns**

## Paper Media

- **High-grade cellulose fibres** infused with essential resins
- Paper is **warmed, embossed and folded** according to specific requirements
- Curing ensures **stability and resistance** to chemical and thermal influences
- These processes result in **PPG (Precision Pleat Geometry)**! meaning air, oil or fuel can flow freely through the paper at all times
- Media is capable of removing particles as small as **25-30 micron** offering the potential to **eliminate a high concentration of contaminants**

## Multi-Layer Media

- Combination of **non-woven materials and paper**
- Fused together during a complex production process
- **Eliminates up to 40% more** contaminants than conventional paper filters
- Can remove particles as small as **3-5 microns**
- **Used in modern diesel fuel injection systems** (turbo diesel direct injection, common rail or pump injector technology)

# Testing

## & Quality Control

**Testing and quality control plays a crucial role in the development of all Comline filters and the stringent processes employed help guarantee performance and reliability across our range.**

**Our comprehensive, three-stage testing and quality control system includes production testing at the factory, in-house testing inside the Comline Quality Lab (CQL) and further analysis conducted through collaboration with IFTS (International Filtration Testing Services).**

### Production **Factory Testing**

Extensive filter testing takes place 'at factory' during the production process. Comline works only with world-class manufacturing partners who operate our stringent testing requirements as part of the production process.

**1**

- **Efficiency**
- **Pressure Loss**
- **Rubber Seal**
- **Impulse**
- **High & Low Temperatures**
- **OE Housing Tests**

### Comline **Quality Lab Testing**

Comline operates its own quality lab at the brand's UK headquarters and this facility is used to further scrutinise filter quality and finishing. The Comline Quality Lab plays a pivotal role in guaranteeing performance, reliability and ease of fitment.

**2**

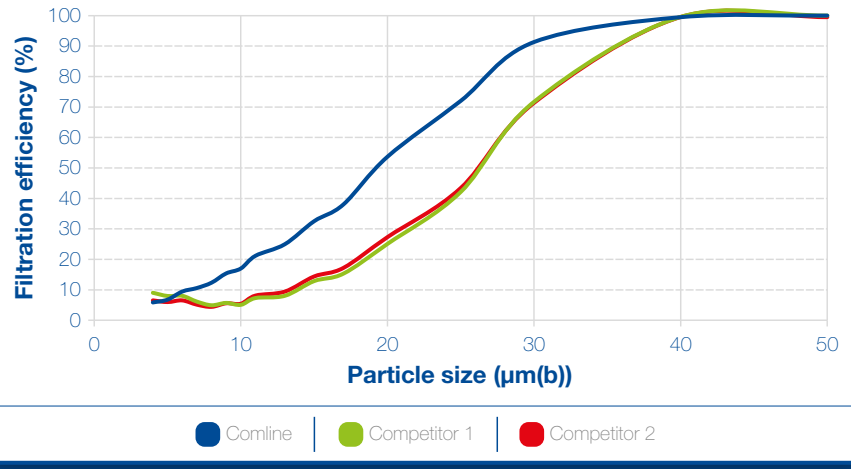
- **Media**
- **Media Depth**
- **PU/PP Finish**
- **Pre-filter**
- **Pleat Count**

# Filtration Elite

**Comline sits alongside an elite group of filtration providers as a member of the IFTS (International Filter Testing Services) - one of the world's foremost filtration testing organisations.**

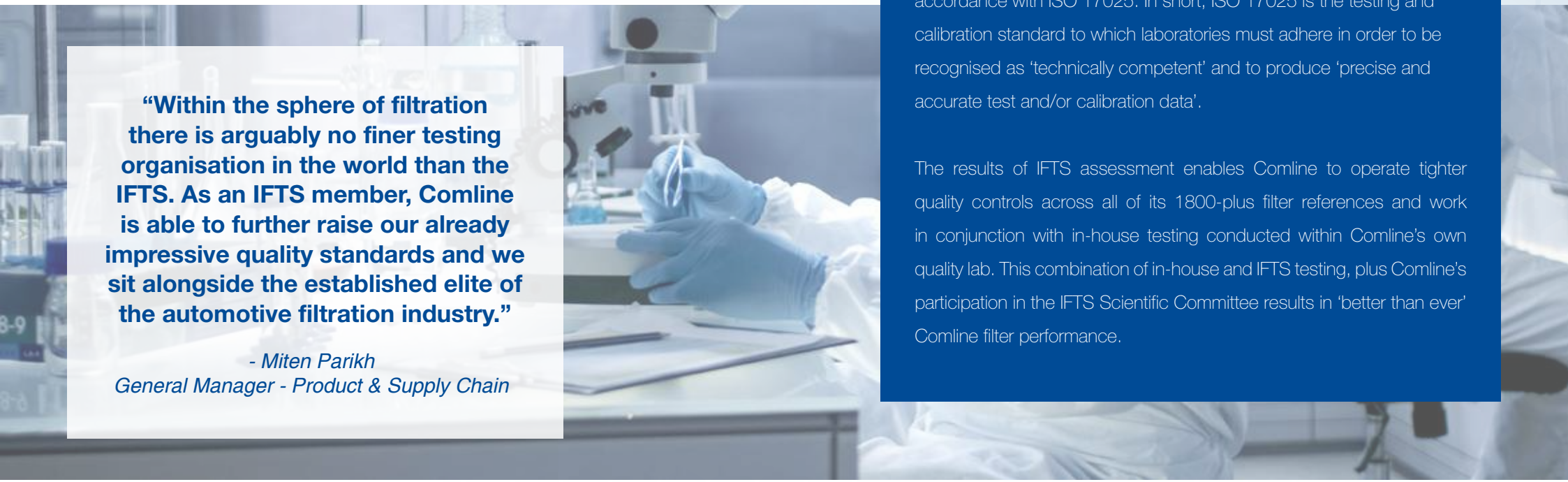
Comline partners with the IFTS to test and benchmark the quality of our filter media to ensure Comline filters deliver consistent, reliable performance. By harnessing the resources and expertise of the IFTS, Comline continues to take its filter range from strength-to-strength.

**FILTRATION EFFICIENCIES VS PARTICLE SIZE**




The depth and quality of analysis offered by the IFTS to its members is guaranteed by the organisation's test laboratory, which runs in strict accordance with ISO 17025. In short, ISO 17025 is the testing and calibration standard to which laboratories must adhere in order to be recognised as 'technically competent' and to produce 'precise and accurate test and/or calibration data'.

The results of IFTS assessment enables Comline to operate tighter quality controls across all of its 1800-plus filter references and work in conjunction with in-house testing conducted within Comline's own quality lab. This combination of in-house and IFTS testing, plus Comline's participation in the IFTS Scientific Committee results in 'better than ever' Comline filter performance.



**"Within the sphere of filtration there is arguably no finer testing organisation in the world than the IFTS. As an IFTS member, Comline is able to further raise our already impressive quality standards and we sit alongside the established elite of the automotive filtration industry."**

*- Miten Parikh*
*General Manager - Product & Supply Chain*

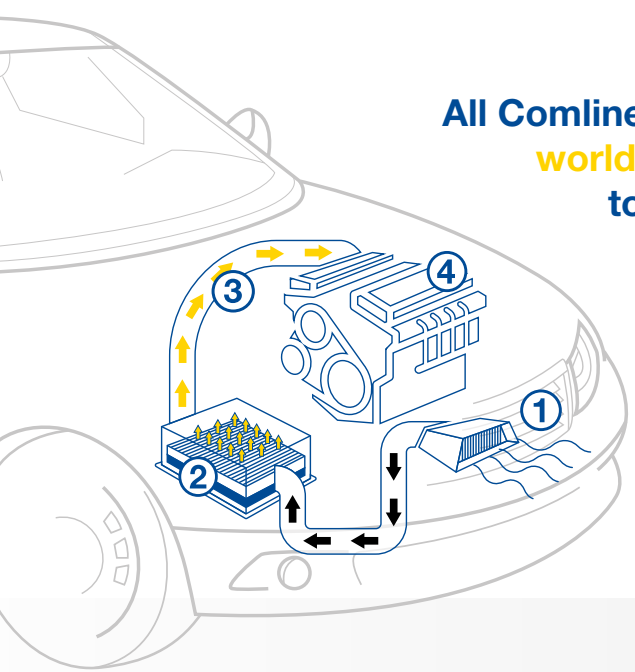
# The role of the Air Filter

## Comline's range of high-quality air filters offer vital engine protection to keep vehicles running efficiently mile-after-mile.

The plentiful supply of air (oxygen) is critical to the operation of the internal combustion engine but it is equally important that this air be free from contaminants. An engine burning contaminated air will become less and less efficient as dirt, dust and debris accumulate, which will lead to reduced engine performance and inferior fuel economy. In addition, such contaminants cause wear of critical engine components such as valves, rings, cylinder bores plus key electronic parts such as AMFS (Air Mass Flow Sensors), located between the air intake and combustion chamber.

### Key Features of Comline Air Filters

- **Superior filtration and dirt protection**
- **High-grade paper media delivers outstanding air flow**
- **Premium quality Polyurethane (PU), Polypropylene (PP) or steel frames**
- **Quality tested for better engine performance**




**All Comline air filters are manufactured by world-class production facilities to ensure total compliance with UK and EU specifications.**

**With over 1000 part numbers, a thriving development programme and quality guaranteed, its clear to see why Comline should be first on your list for air filters.**

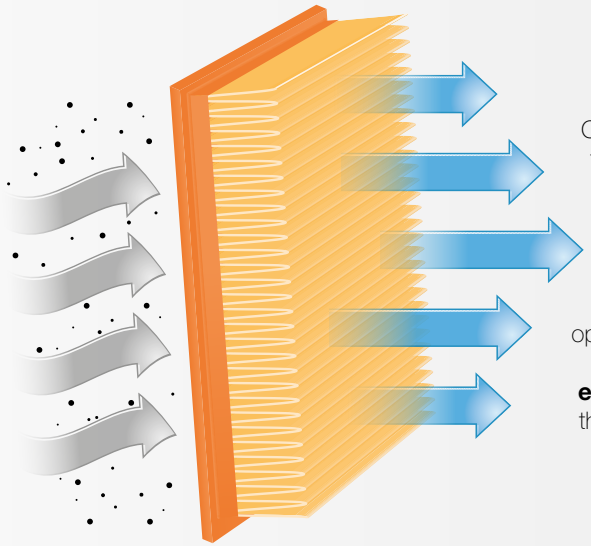


**1**

External air enters through the intake system containing various **atmospheric contaminants.**

**2**

This air then passes through the **filter element**. Dirt, debris and other contaminated particles harmful to the engine are trapped within the **precision-pleated** filter media.



**3**

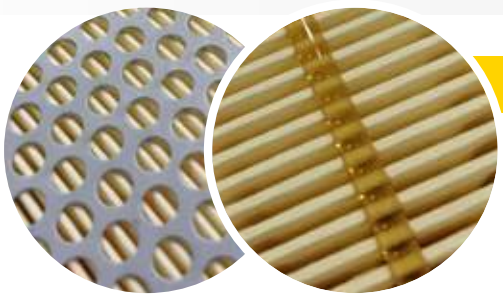
Clean filtered air is then able to flow to the engine **free from contaminated matter.**

**4**

This clean air ensures that optimum **engine performance** is maintained, **sensitive electronics** are protected and the vehicles **driveability** is not compromised.

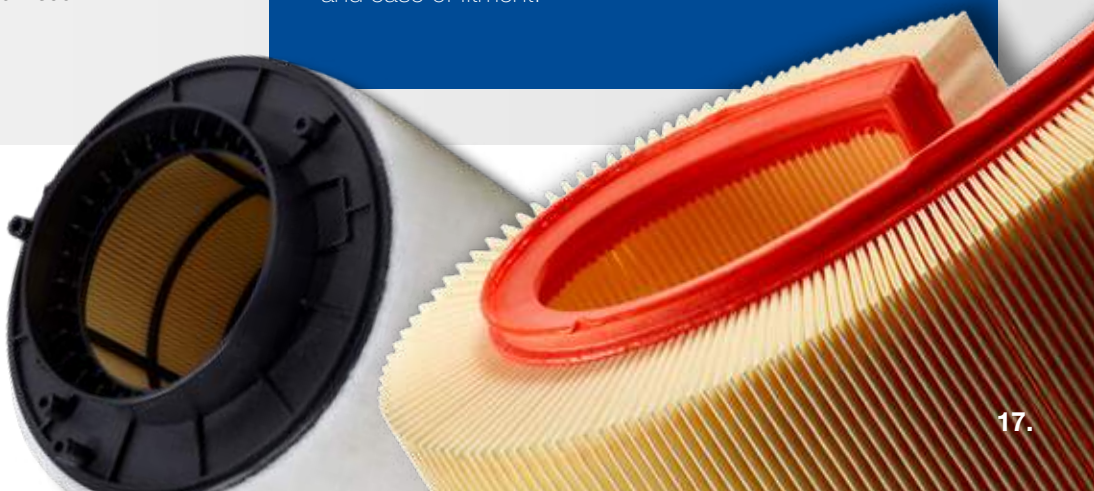
## OE **Matching**

The Comline air filter range covers a broad array of applications and is precisely manufactured in-line with OE specifications. So, if the OE filter features a Polyurethane (PU) frame, the Comline version will feature an equivalent, high-quality PU frame to ensure optimum performance and ease of fitment.



## Positive **REINFORCEMENT**

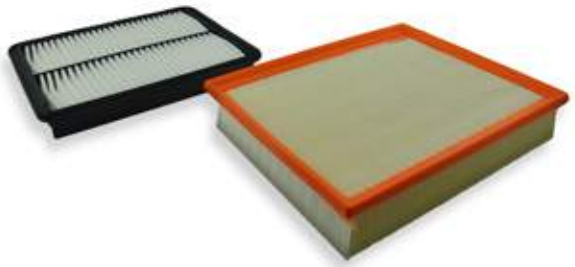
To ensure filter stability, Comline air filters feature reinforced metal backings or adhesives.



# Types of **Air Filter**

**Comline air filters are manufactured in all shapes and sizes to cater for the wide variety of makes and models in today's vehicle parc. Whether rectangular or cylindrical in shape, air filters can be grouped into three broad types based on the material that provides the filter's structural rigidity.**

## PU/PP



The air filter features a moulded, **Polyurethane (PU) or Polypropylene (PP) frame** designed to provide structural support and maintain filter media integrity. Selected PU and PP applications are supplied with a pre-filter layer, usually foam, designed to capture larger particles such as dust and soot. In dry, dusty conditions pre-filters are particularly useful in protecting filter media and help maintain filter performance.

## METAL REINFORCED

Visually a metal filter can look the same as a PU or PP variant, the crucial difference is that structural support is provided by a **metal, typically steel, frame** as opposed to moulded plastic. Such filters are mainly used within the Japanese and Korean vehicle parc.

## ECOLOGICAL

Many modern vehicles require a new breed of **Ecological (Eco)** air filters which are manufactured entirely of recyclable materials. All filter media is biodegradable but many components used within more traditional filter types cannot be recycled. Comline provides Eco air filters in-line with OE specifications where the filter frame is manufactured entirely from recyclable, biodegradable materials.

# Features & Benefits

All Comline air filters are precisely designed to deliver optimum reliability throughout the service life of the part

High-grade, non-woven paper media with Comline Precision Pleat Geometry (PPG) ensures consistent airflow and superior filtration

Media carefully selected for water resistance to prevent media saturation and loss of filter integrity

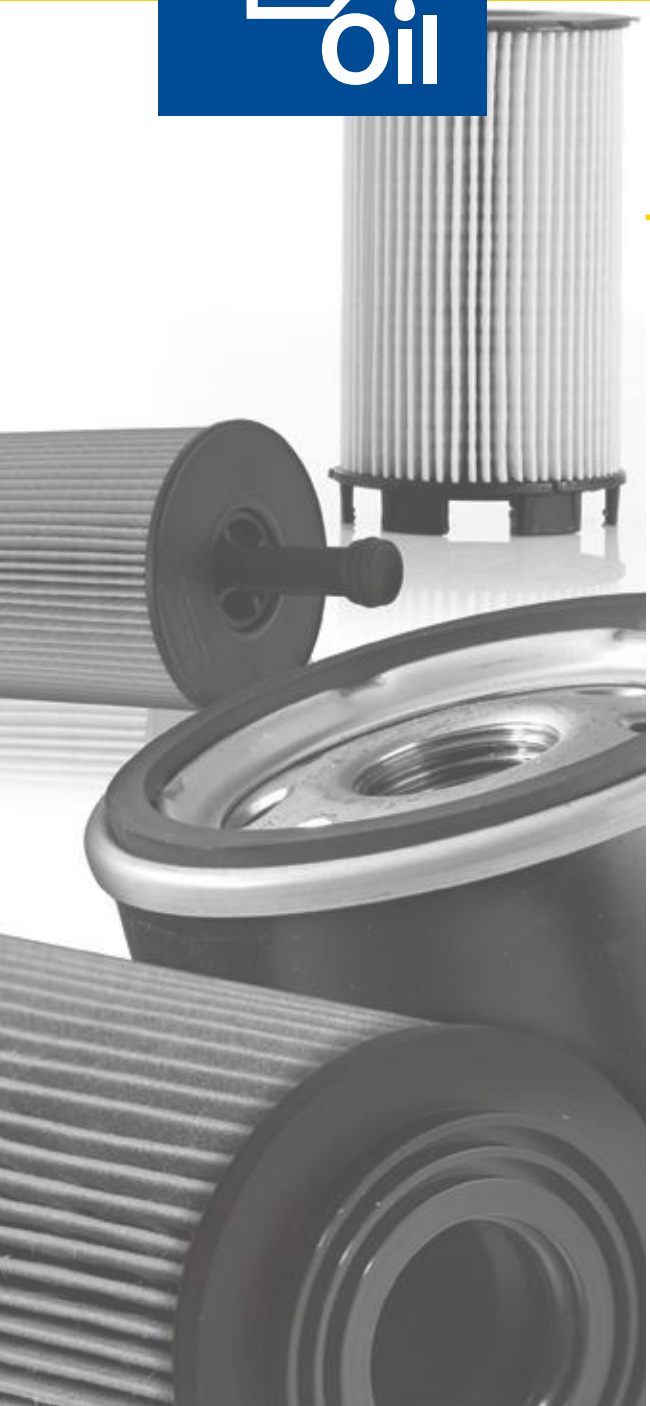
Manufactured to OE-matching specifications for ease of fitment

Precisely injected Polyurethane (PU) or Polypropylene (PP) mix matches OE specifications to provide strength, structural rigidity and prevent deformation

Quality tested during production and within Comline Quality Lab

Consistent, reliable performance with genuine value for money

Comprehensive range means there's a Comline air filter for all popular applications



The role of the

# Oil Filter

## Comline's focus on quality ensures that each and every oil filter meets strict criteria laid out by UK and EU directives for superior fit and performance.

Dirt and other contaminants are the primary reason for excessive engine wear and failure. The engine is a hot-bed for potentially harmful particles with some of the most destructive being those that occur from oil degradation, plus the tiny metallic fragments that result from engine component friction. In both cases these contaminants are mobilised in oil which helps spread them throughout the inner workings of an engine. This in turn causes further damage through abrasion and creates a downward spiral of wear and tear that can lead to complete engine failure. To ensure engine protection and safeguard performance it is vital to conduct a regular oil change. It is equally important to fit a high-quality Comline oil filter that will remove harmful particles from the oil before it is fed into the engine.

### Key Features of Comline Oil Filters

- **Carefully selected media provides high dust holding capacity and service life performance**
- **Optimum media surface area with Precision Pleat Geometry (PPG) for consistent filtration**
- **Phosphated canister treatment protects against corrosion**
- **Anti-drain valve abolishes dry starts**

**The Comline range spans an array of popular European, Japanese and Korean applications and includes both traditional 'spin on' filters and the more environmentally friendly, paper-based Eco options which are becoming more commonplace in today's modern vehicles.**

**Filter Housing**
Offers superior strength and pressure fatigue performance

**End-Cap**
Contains the bypass valve in-line with OE specification

**Center Tube (Inside)**
Perforated inner tube allows more flow area and eliminates media wear during pleat movement

**Anti-Drain Back Valve**
Stays flexible in extreme temperatures

**Steel Spring**
Securely holds components in place

**Filter Media**
Wire-backed fully synthetic media offering high efficiency and longevity

**Stamped End Caps**
Precisely stamped end caps with plastisol sealant secure pleated media firmly in place

**Heavy-Duty Baseplate**
Features a fully tucked double seam for added strength

**Rubber Gasket Seal**
Made from NBR (Nitrile Butadiene Rubber) stays flexible and tightly sealed

## OE **Matching**

All modern, engine-driven vehicles come equipped with a factory-fit oil filter which take on a variety of shapes, sizes and styles. Comline offers comprehensive market coverage to deliver an all makes range of oil filters manufactured in-line with OE style and specification.

# Types of **Oil Filter**

**Within the Comline oil filter range there are two distinct styles, both of which are widely prescribed based on the needs of the specific application.**

## SPIN-ON


The **spin-on oil filter** takes its name from the process used to fit this type of part, where the entire filter, including housing, is quite literally 'spun on' to the vehicle's oil system. Spin-on filters are self-contained within a metal canister meaning the filter media, bypass and anti-drain valve, element cover and gasket are all built into the design.

## ECOLOGICAL

**Ecological (Eco)** oil filters, sometimes known as element or cartridge filters, differ from spin-on variants as they are essentially a replacement of the filter element only. When replaced, the technician need only remove the existing filter element from the housing built into the design of the vehicle and replace with the fresh Eco filter.

# Features & Benefits

All Comline oil filters are precisely designed to deliver optimum reliability throughout the service life of the part

High-grade, non-woven paper media with Comline Precision Pleat Geometry (PPG) ensures consistent flow rates to prevent oil starvation and high dust-holding capacity for superior mile-after-mile filtration

Media carefully selected to prevent media saturation and loss of filter integrity

Manufactured to OE-matching specifications for ease of fitment

Oil filter fitting carefully matched to OE design to guarantee a first-time fit

Comline spin-on filters feature a phosphated canister treatment that protects against corrosion to maintain filter structure

Spin-on filters also benefit from high-quality silicone anti-drain back valves that have a track-record for reliability

Long-life sealing rings manufactured from NBR (Nitrile Butadiene Rubber) maintain a constant seal

Quality tested during production and within Comline Quality Lab

Consistent, reliable performance with genuine value for money

Comprehensive range means there's a Comline oil filter for all popular applications

Fuel


# The role of the Fuel Filter

## A Comline replacement fuel filter is a sure-fire way to protect the engine from potentially costly damage caused by burning contaminated oil.

Like oil and air filters, the fuel filter is essential to the reliable and sustained operation of the internal combustion engine. Through the process of fuel refinement, storage and transportation, most fuel will contain its fair share of contaminants, which could ultimately prove harmful to the engine. Such particulates may lead to poor performance and economy, whilst severe cases of sustained fuel contamination can result in the break-down of some of the engine components.

### Key Features of Comline Fuel Filters

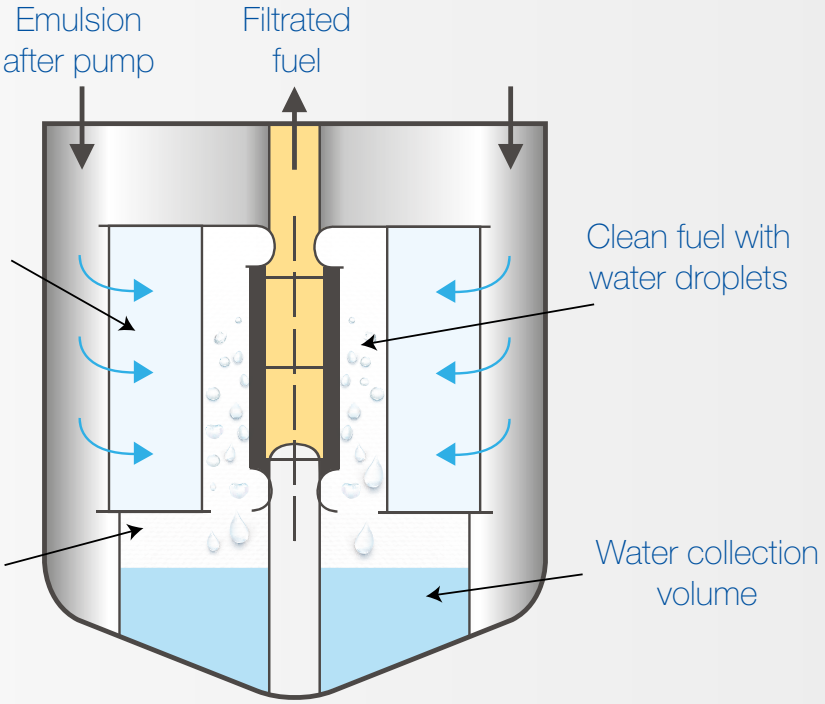
- **Extensive quality testing ensures high performance**
- **Designed for ‘fit and forget’ peace of mind**
- **Robust, high-quality materials for strong and sustainable filtration**
- **Double-layer paper media is utilised on selected applications to guarantee performance**
- **Tested to SAE (Society of Automotive Engineers) standard**

**Comline fuel filters are manufactured by some of the biggest and most well-respected production facilities in the world utilising the latest ISO-approved manufacturing techniques.**

**With a range of over 300 parts covering popular European, Japanese and Korean applications, Comline delivers a truly first class fuel filter offering.**

## OE **Matching**

To guarantee performance and reliability all Comline fuel filters are benchmarked against the OE filter. No matter the make, no matter the model, Comline fuel filters for European, Japanese and Korean vehicles can be relied upon to deliver constant and consistent filtration.




Fuel

# Types of **Fuel Filter**

**The Comline range encompasses no fewer than eight styles of fuel filter, each of which is developed from thorough benchmarking of the OE filter and the requirements of the specific application.**

## IN-LINE

**In-line** fuel filters consist of the entire filtration system including the canister, element, valves and seals. The in-line filter is connected directly to the fuel lines using specialised connectors.

## SCREW-ON


**Screw-on** fuel filters are similar to in-line options but the method of fitting differs. Instead of being connected to the fuel lines the filter is 'screwed on' to the housing within the vehicle fuel system.

## ECOLOGICAL

**Ecological (Eco)** fuel filters, also referred to as element or cartridge filters, require replacement of the filter element only. This filter type contains double-layer paper media and is manufactured of recyclable materials.

## IN-TANK

As the name suggests, 'in-tank' filters are located within the fuel tank and are found in Japanese & Korean applications. Such filters improve engine efficiency with continuous flow through the filter and by dispersing fuel directly back into the tank.

## WITH HOUSING

Fuel filters complete with housing offer better protection of the filtration media. Their design also enables higher flow rates through the filter media.

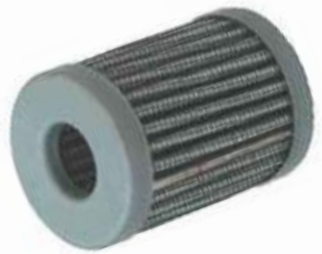
## WITH DIVERTER VALVE

Numerous references within the Comline fuel filter range come equipped with a built-in diverter valve designed to divert fuel back into the tank when pressure exceeds a certain level.

## WATER SEPARATOR

This type of fuel filter works to deliver the maximum level of water separation from the fuel. Water separators protect fuel injection system components such as injectors and the high-pressure pump.

## LPG



LPG filters perform the vital role of purifying LPG before it reaches system components. It offers some of the highest efficiency levels, ensuring effective removal of dust and/or fuel impurities.

# Features & Benefits

All Comline fuel Filters are precisely designed to deliver optimum reliability throughout their service life

High-grade, non-woven paper media (double-layered in selected applications) with Comline Precision Pleat Geometry (PPG) ensures consistent flow rates and high dust-holding capacity for superior mile-after-mile filtration

Media carefully selected for water resistance to prevent media saturation and loss of filter integrity

Fuel filter fitting clips carefully matched to OE design to guarantee a first-time fit

Manufactured to OE-matching specifications to the very latest ISO standards for performance and ease of fitment

Fuel filter cores are reinforced and tested well beyond the limit in order to guarantee performance at high-pressures and under severe compressive forces

Robust, high quality materials ensure strong and sustainable filter canisters to protect against corrosion to maintain filter structure

Fuel filter connectors are precisely manufactured in-line with OE specifications to ensure perfect installation within the fuel system and a tight, reliable seal

All valves are designed with a clearly-defined and consistent opening pressure for the specific injection system which guarantees fuel supply to the engine at all times

Comline fuel filters feature high water-fuel separation rates

Quality tested during production and within Comline Quality Lab

Consistent, reliable performance with genuine value for money

Comprehensive range means there's a Comline fuel filter for all popular applications

Cabin + CARBON

The role of the

# Cabin Filter

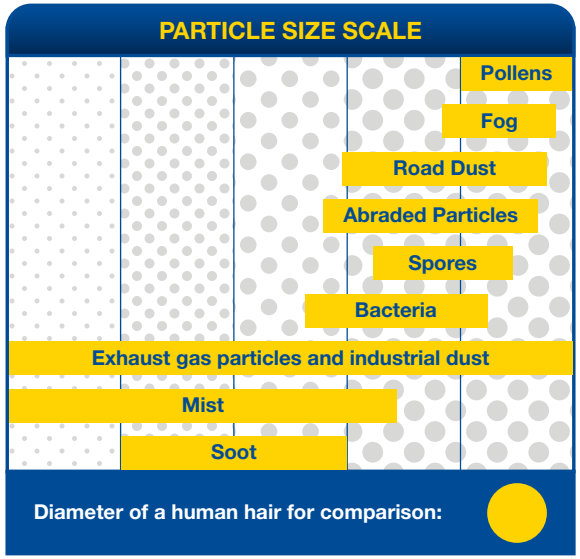
## + Activated Carbon Filters

**Offering tangible benefits to both the motorist and technician, the cabin filter is a real growth area for Comline but a product category which is often ignored by aftermarket businesses.**

Cabin filters are designed to enhance the quality of the air entering the vehicle cabin. The presence of a high-quality cabin filter will protect vehicle occupants from harmful particles such as dust, pollen and bacteria and prevents the vehicle heating and air-conditioning being exposed to the same contaminants.

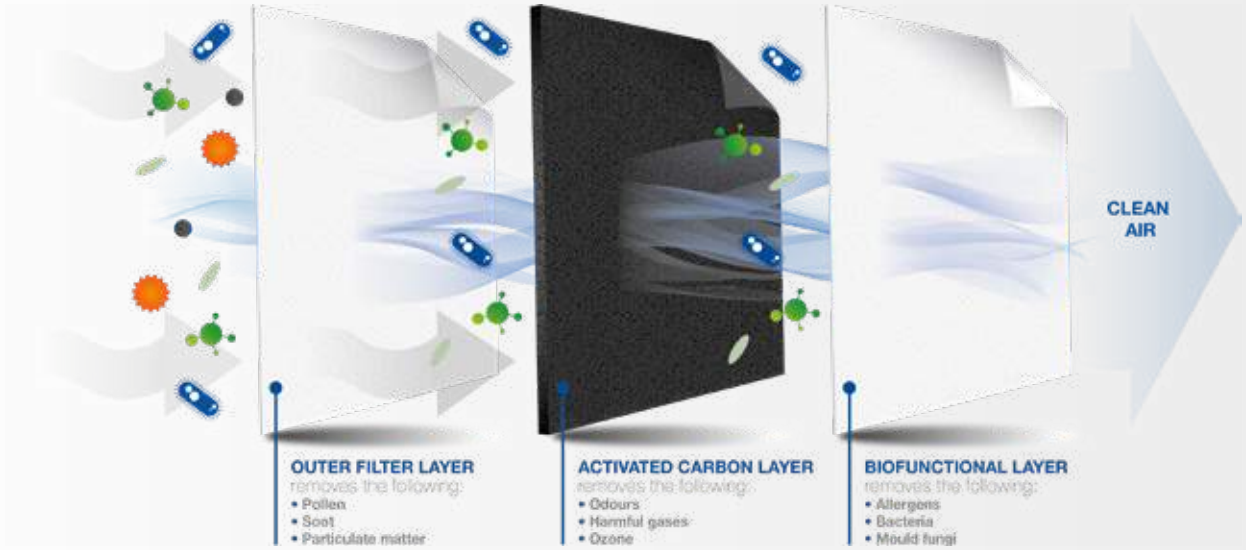
### Key Features of Comline Cabin Filters

- **Specially formulated media delivers clean air for vehicle occupants**
- **Protects the driver and passengers from unpleasant odours and harmful gases**
- **Designed for maximum particle efficiency to capture dirt and bacteria**
- **Factory tested, QC passed and delivered installation ready**
- **The addition of activated carbon molecules to selected references adds an extra layer of protection**




## Why **it Matters**

It's widely accepted that **a cubic metre** of air contains somewhere between **10-80 billion particles**. Among these particles are dusts, pollens, bacteria and other fine particulates. The absence of a quality cabin filter means vehicle occupants are repeatedly breathing in such contaminants, many of which are too fine to be filtered out by the body's natural defences. Inhaling such particles can cause respiratory and cardiovascular problems, trigger allergies or asthma and, in extreme cases, have been shown to have carcinogenic effects.




In addition to the health concerns there are also very real safety benefits to replacing the cabin filter. A lack of clean, oxygenated air can lead to fatigue and reduced levels of concentration, whilst such particles can also lead to watery eyes or sneezing. When you consider a sneeze at 60mph renders a driver blind for 30 metres, the importance of a quality cabin filter really is underlined.

## An Essential **Component**

Many vehicle owners may choose not to replace their cabin filter to reduce maintenance costs and it is often viewed as non-essential because a cabin filter has no mechanical implications. However, the importance of a quality cabin filter cannot be overstated as it protects the vehicle's most important component – the driver and their passengers.

### Potential Atmospheric Contaminants

Cabin + CARBON

# Types of **Cabin Filter**

**The Comline range includes both standard cabin filters and the more premium activated carbon options offering a choice of protection for vehicle occupants. Comline aims to help aftermarket businesses capitalise on the cabin filter opportunity by offering a highly competitive range of quality cabin filters, and a viable upgrade option through our equally competitive activated carbon variants.**

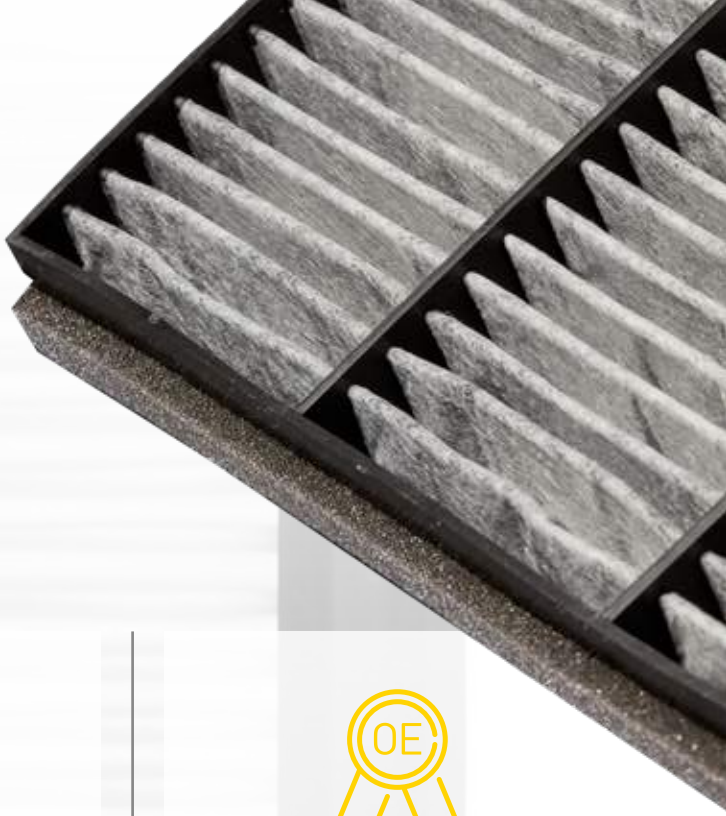
## CABIN FILTER

Cabin filters, sometimes referred to as **particle or anti-dust filters**, are manufactured from specialised woven, multi-layered media designed to capture dust, pollen, spores, soot, and tyre micro-fragments. Traditional cabin filters are an effective, lower-cost option for cleansing air entering a vehicle but do not offer protection from harmful exhaust gases or unpleasant odours.

## ACTIVATED CARBON

Alongside a range of cabin filters Comline also offers **activated carbon** options which offer an added layer of protection. The design of a carbon filter sees the media impregnated with activated carbon molecules that filter out harmful, ultra-fine gas particles such as Benzine or Ozone, plus absorb unpleasant odours which may otherwise enter the vehicle cabin.

# Features & Benefits



Comline cabin and activated carbon filters deliver clean air for vehicle occupants and protects both driver and passengers from contaminants

High-grade, non-woven paper media with Comline Precision Pleat Geometry (PPG) provides maximum particle efficiency and consistent airflow to filter out dirt, bacteria and other harmful contaminants

Activated carbon options utilise impregnated media to protect against harmful gases and unpleasant odours

Manufactured to OE-matching specifications for ease of fitment

High-strength, reinforced side walls ensure stable structure and help maintain pleat uniformity for reliable airflow

Quality tested during production and within Comline Quality Lab

Consistent, reliable performance with genuine value for money

Comprehensive range means there's a Comline cabin filter for all popular applications

# Market COVERAGE & Data Support

**Comline is proud to be an 'all makes' supplier and our comprehensive range of over 1800 filter references cover 95% of the European, Japanese & Korean vehicle parc.**

Our Product Development Team works tirelessly to ensure the Comline filter range is firmly aligned with the needs of the European marketplace. This fast-paced development programme simply never stops and the result is a steady and consistent stream of new-to-range filter references each and every year.

This new-to-range pipeline can be viewed by scanning the QR code on the right or by visiting: **www.comline.uk.com/products/new**

## Aftermarket **Demand**

There are currently in excess of 256 million passenger cars registered in Europe. Approximately 200 million of these vehicles are outside of manufacturer warranty and sit within the open market for replacement filters. With the majority of vehicles requiring anything up to four filters at regular service intervals, the European aftermarket demand for replacement filters is simply enormous!

**Source: ACEA, the European Automobile Manufacturer's Association**

## JAPANESE & KOREAN **HERITAGE**

**It is a little-known fact that the origin of Comline lies with filters for Japanese & Korean marques and this is a legacy that continues today. Comline's Japanese & Korean vehicle coverage is second-to-none; so, whether it's Honda or Hyundai, Mazda or Mitsubishi, Subaru or Suzuki, Comline has the filter reference you need. Comline's Japanese and Korean range is among the very best available anywhere in the European aftermarket.**

# Data **Prowess**

In support of a truly world-class filter range Comline invests heavily in data. A dedicated team of Comline data analysts diligently profile each part number to deliver a robust portfolio of data with each filter. The quality of this data is among the very best available in the aftermarket and this is reflected by Comline's status as a **TecAlliance 'A' rated** and **MAM AutoCat+ certified** data supplier. Customers can also access a comprehensive and interactive digital catalogue online at **www.comline.uk.com**

TecAlliance
Certified Data Supplier

AUTOCAT+
MMI CERTIFIED DATA



- **Full make, model, year and application data**
- **Dimension data**
- **High-quality images with annotated dimensions**
- **3D visualisation**
- **Competitor cross referencing**
- **Downloadable PDF product bulletins**

# Additional **Resources**

The Comline website also plays host to a variety of additional filter-related content. This includes **technical bulletins** informing the market about important technical developments, **new technologies** or **supersessions,** and Comline **model features** which showcase the range of filters available for specific makes and models.

# MARKETING
# Support

**Comline offers an array of support materials to help customers promote their filter business and the wider Comline brand, this includes:**

## Branding
A range of banners, signage, posters and even vehicle graphics all designed to put Comline filters up in lights.

## Merchandise
Comline has a variety of merchandise options available, from simple items such as pens, keyrings and air fresheners to more premium notebooks, mugs and umbrellas.

## Clothing
Ever popular in the automotive industry, Comline offers in excess of 60 items of promotional clothing, many of which are available with our '1st for Filters' branding.

## Customised Promotions
Comline is able to offer its customers pre-defined promotions which are quickly and easily customisable via the MyComline marketing portal.











**For more information please contact your appointed distributor, Comline Sales Rep or email marketing@comline.uk.com**

Exclusively available at:

**My COMLINE**
MARKETING PORTAL

# ONE OF THE *FASTEST* GROWING AUTOMOTIVE BRANDS IN EUROPE

**First established in 1991, Comline is an independent British brand that is currently one of the fastest growing in the European automotive industry. Our proven recipe for delivering consistent, reliable product quality with genuine value for money has established us as a leading aftermarket brand and seen Comline presented with a variety of awards and accolades, most notably The Queen's Award for Enterprise: International Trade and a listing in the Financial Times' FT1000 listing of Europe's fastest growing companies.**

Offering 95% availability across our all makes, multi-category product range, Comline offers quick and efficient logistics from all four European distribution hubs located in Greece, Ireland, Spain and the United Kingdom. Every inch of the brand's 190,000 ft2 / 17,500m2 distribution capacity is geared towards providing our customers with truly first-class customer service.

With a diverse product range encompassing filters, braking, steering & suspension, lubricants, wipers, batteries and much more, Comline parts are trusted to perform by distributors, workshops and technicians in over 40 countries worldwide.


GREAT BRITAIN

Comline Headquarters,
Luton, UK




**Filters | Braking | Steering & Suspension | Lubricants | Transmission | Batteries | Wiper Blades**

“COMLINE’S *HUGE* RANGE OF **FILTERS** ARE **CONSTANTLY** BEING **UPDATED** WITH THE **LATEST APPLICATIONS** THAT ARE **RIGHT** FOR MY **MARKET**”

**- Intars, Comline Customer (Latvia)**

“WITH **COMLINE** I’M ***CONFIDENT*** THAT THEY’RE ***ALWAYS*** **ABLE** TO **OFFER QUALITY PARTS** FOR MY **CUSTOMER** AT AN ***EXCELLENT*** **PRICE**”

**- Nikola, Comline Customer (Serbia)**


COMLINE
www.comline.uk.com
EOF005
1st FOR FILTERS

COMLINE

GREAT BRITAIN

THE QUEEN'S AWARDS FOR ENTERPRISE: INTERNATIONAL TRADE

EAC

ISO 9001 REGISTERED FIRM

SMMT MEMBER

TecAlliance Certified Data Supplier

ifts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